

# PROFESSIONAL DEMOLITION AMERICAS

Your Gateway to North, Central and South America

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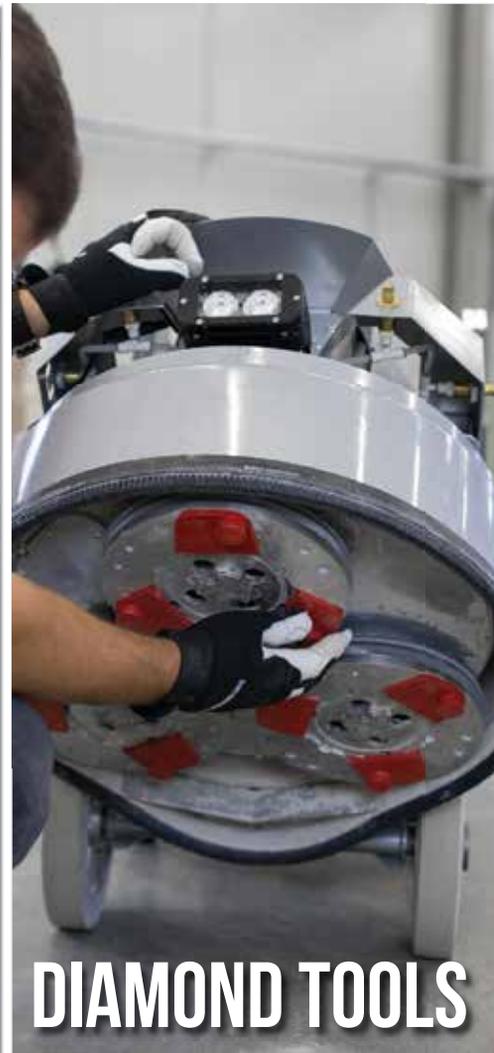
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# LAVINA

by  SUPERABRASIVE

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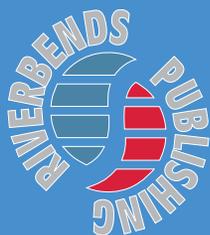
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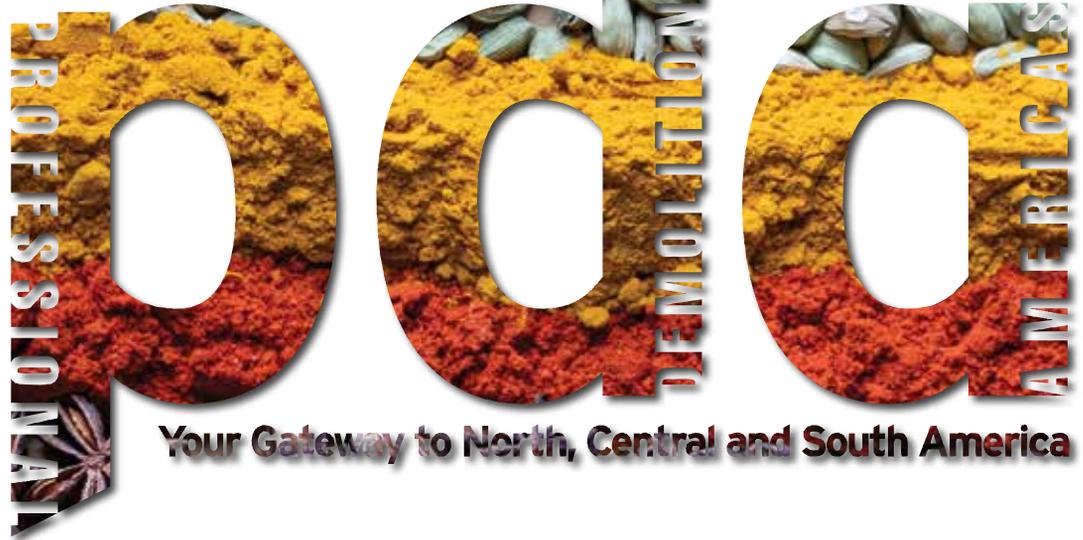
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Construction site outside New Delhi, India.  
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# Do Desperate Times Really Call for Desperate Measures?

You still hear talk in the US about the potential of a recession in the not-too-distant future, as experts point to one wobbling indicator or another that's presumably a harbinger of something else. What prognostications one chooses to believe is a personal choice, but as statistician and author Nate Silver has written, "We love to predict things—and we aren't very good at it."

In any event, any hint of a recession often gives people in the construction industry chills, as it means more competition for less available work, lower prices, and trimming already minimal margins. Survival is certainly possible, but it sure ain't easy. Just ask anyone who had to wade through the morass of the so-called "Great Recession" a decade ago, or the shorter, yet no less painful dot-com bust-inspired difficulties before that.

Fortunately, construction is usually a following industry in economic cycles, more likely to experience the effects later than sooner. And in many markets, there's no indication that any of that is about to happen. In fact, many markets of the US are as hot as they've ever been, presenting contractors with the seemingly never-ending challenge of finding enough people to do the work. It's a seller's market, and the best workers with the best skills—be they trade or management—are worth more than ever.

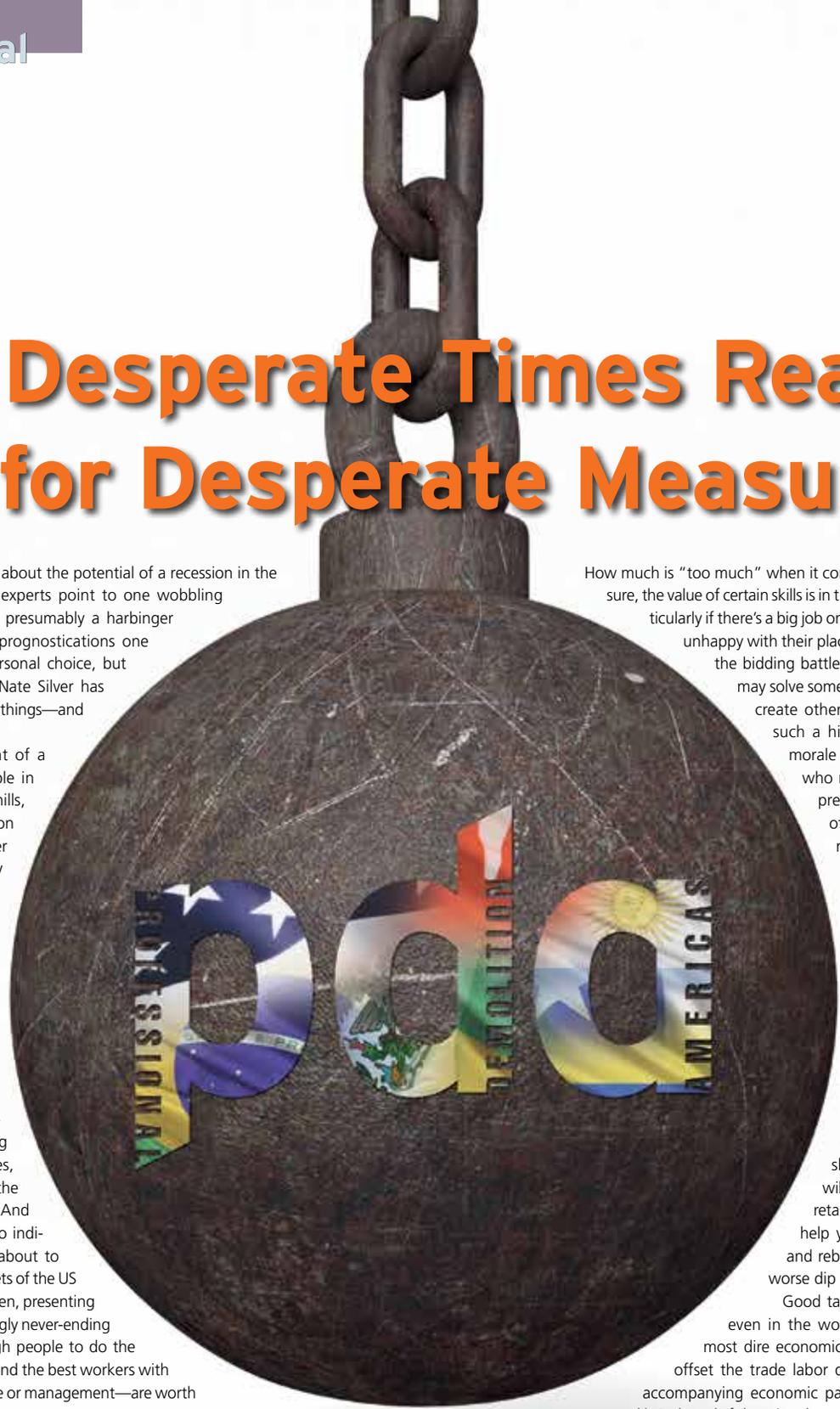
Usually, "worth" is expressed in terms of pay. According to the Associated General Contractors, average hourly earnings in construction has reached \$30.84, a 2.7% increase since September 2018, and nearly 10% higher than the private-sector average of just over \$28 an hour. And as long as markets remain strong, that figure will continue to rise.

How much is "too much" when it comes to pay, though? To be sure, the value of certain skills is in the eye of the beholder, particularly if there's a big job on the horizon, or customers unhappy with their place in the backlog. Winning the bidding battle for that worker's services may solve some short-term problems, but create others. For example, how will such a high-priced hire affect the morale of current staff members who may no longer feel so appreciated? And should hints of a slowdown coalesce into reality, there's the difficult dilemma of figuring out how to keep this star on board, and keep the whole ship afloat.

Rather than figuratively throwing money at the problem (maybe literally too), contractors should consider other enticements, such as more flexible work hours when possible, time off, reimbursement for skills training. These steps will not only help attract and retain your best of the best, but help you better able to endure and rebound from a moderate or worse dip in business.

Good talent will be at a premium even in the worst of times, as even the most dire economic downturn won't entirely offset the trade labor deficit. (Even if it did, the accompanying economic pain would do no one any good.) A thoughtful, rational approach to compensation is a contractor's best hedge against the best of times and the worst of times—and everything in between.

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*PDa Magazine is pleased to present regular updates from the US National Demolition Association. This issue's contribution was written by Executive Director, Jeff Lambert.*

## National Demolition Association Strategic Plan Update

*Text: By Jeff Lambert*

NDA launched several programs this year to help our members gain a competitive edge and deliver work safely. In March, NDA finalized our 2019 - 2021 strategic plan. The Strategic Plan includes implementing research priorities that support strategy and, in turn, upgrade the association website and supporting innovative technology platforms; creating and maintaining a library of best practices and exploring certification development for on-site crew/trades focused-education.

In October, NDA launched our new website. Priorities achieved with the new website include intuitive navigation and easy access to resources, mobile responsive design to accommodate our on-the-go workforce, and greater emphasis on upcoming events relevant to NDA members.

In addition, the website includes enhanced advocacy tools to give our members every advantage in the industry. The Procurement Opportunities portal allows all members to search available openings for federal work. The site also includes the Grassroots Action Center where members can contact policymakers and those in federal agencies to educate them on pressing issues.

Registration is open for NDA Annual Convention, Demolition Austin. Last year we had nearly 90 exhibitors and over 1,000 attendees. Our live DEMOLITION featured 24 machines where attendees tested the latest advance in equipment. Visit our website and register today for Demolition Austin, February 22-25, 2020.

NDA's strategic plan aspirational goal is to be the premier source of demolition education. We are proud to announce we will launch our new superintendent course and onsite equipment training at our Live DEMOLITION at our Annual Convention in February.

So far this year, 15 professional have earned a Foundations of Demolition Management Certificate. The Foundations of Demolition Management series consists of four seminars that total 40 hours of classroom instruction focusing on diverse topics in demolition management. Check out our website [www.demolitionassociation.com](http://www.demolitionassociation.com) for current training dates and locations.

On the safety front, this year NDA partnered with the US Department of labor for the annual Safe + Sound Campaign in offering members tools and resources to ensure their workers return home from the jobsite in the same or better condition than when they arrived. Additionally, NDA is proud to announce the addition of the Mike Casbon Safety Award. This award honors the legacy of the late Mike Casbon by recognizing NDA member companies that have demonstrated a commitment to safety through lagging and leading indicators. The Award winners will be announced at convention.

If you have not done so, check out our monthly podcast, Demolition NOW. Demolition NOW provides analysis of government affairs issues impacting the industry along with engaging interviews of industry leaders and government officials to provide members need-to-know updates. Our latest episode features Christina Kelly, Director of Planning and Neighborhood Revitalization at the Genesee County Land Bank Authority, about the role of demolition in federally funded community development. In addition, NDA's Kevin McKenney speaks with Brian McKinney of Gayanga Co. about his Detroit based company and their role in the community, NDA education courses, and the future of workforce development in the industry.

For questions regarding membership please contact [info@demolitionassociation.com](mailto:info@demolitionassociation.com).

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

**Genesis Announces to Sales, Account Management Posts**  
Genesis Attachments has promoted Justin Palvere sales director for North America. Palvere will manage sales and channel strategy, as well as the Genesis regional managers and sales territories in the US and Canada.

Palvere began his career with Genesis in manufacturing 12 years ago. He has since held positions including Southeast regional sales manager, Midwest regional sales manager, and, most recently, national account manager for demolition. Succeeding Palvere is Matt Hughes, who will serve as key account manager for demolition, as well as manager for the South Central region.

Hughes joined Genesis in May 2009 and successfully served as South Central regional manager from 2013 to 2017. During that time, he forged many solid relationships with customers and dealers in the region. His experience, product and application knowledge, and understanding of the industries Genesis serves will allow for a seamless transition back into the territory that now covers Louisiana, New Mexico and Texas. In his new role, Hughes will be responsible for demolition product and sales growth in North America.

Genesis has also promoted Matt Orvedahl to Midwest regional sales manager.



**Justin Palvere.**



**Matt Hughes.**



**Matt Orvedahl.**

Orvedahl, who joined the company as a product sales and service representative in 2017, has developed many strong, successful relationships across the region, which includes Iowa, Minnesota, North Dakota, South Dakota, Upper Michigan, Wisconsin, Ontario and Manitoba. His previous experience, application knowledge, mechanical aptitude and understanding of the industries Genesis serves will help him assist customers with their parts, refurbishment, and service needs.

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

## Brokk Hires Central Canada Regional Sales Manager

Brokk hires John-Paul Duquette as regional sales manager for central Canada. Duquette will manage sales and support for new and existing customers throughout Ontario, Manitoba, and Saskatchewan.

"Throughout North America, construction and demolition contractors are realizing the potential of Brokk machines in a variety of industries and applications," says Peter Bigwood, Brokk vice president of sales and marketing. "To ensure these customers have the support and service they need, Brokk has been working to grow our knowledgeable and experienced staff by adding individuals like John-Paul. His technical background, in addition to his sales experience, make him a valuable asset to our Canadian team."

Duquette joins Brokk with 20 years of experience in equipment service, sales and management. He received certification as an automotive and heavy truck technician from Conestoga College before joining Hewitt Material Handling, a comprehensive lift truck dealership. During his decade at Hewitt, he returned to Conestoga College to complete the Ontario Management Development Program. Most recently he spent nine years at Liftow Limited, another full-service lift truck dealership operating across southern Ontario. There, he worked first as a customer service manager and transitioned into the manager of the new business development sales team.

"Connecting customers with the right equipment has always been important to me," Duquette says. "Especially when that means building relationships and developing new markets. Brokk machines offer an innovative solution for increased efficiency and jobsite safety. I'm excited to join the Brokk team and connect Canadian contractors to the machines that will open up new markets and opportunities for their businesses."



**John-Paul Duquette.**



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## Event Calendar

### Demtech India 2019

Nov 13, 2019  
Hotel Sahara Star,  
Mumbai, India  
[www.demtech.in](http://www.demtech.in)

### World of Concrete 2020

Feb 4-7, 2020  
Las Vegas Convention  
Center, Las Vegas, USA  
[www.worldofconcrete.com](http://www.worldofconcrete.com)

### Demolition Austin 2020 National Demolition Association Convention

Feb 22-25, 2020  
Fairmont Hotel, Austin, Texas  
[demolitionassociation.com](http://demolitionassociation.com)

### Conexpo-Con/Agg 2020

March 10-14, 2020  
Las Vegas Convention  
Center, Las Vegas, USA  
[www.conexpoconagg.com](http://www.conexpoconagg.com)

### ISRI 2020

April 25-30, 2020  
Mandalay Bay, Las Vegas, USA  
[www.isri2020.com](http://www.isri2020.com)

### CSDA 2020 Convention & Tech Fair

March 10-14, 2020  
Carlsbad, Ca, USA  
[www.csd.org](http://www.csd.org)

### Samoter 2020

March 21-25, 2020  
Verona, Italy  
[www.samoter.it](http://www.samoter.it)

### Concrete Show Brazil 20

Aug 14-16, 2020  
São Paulo Expo, São Paul, Brazil  
[www.concreteshow.com.br](http://www.concreteshow.com.br)

### Epiroc Donates Drill rig to Missouri Experimental Mine

Epiroc has donated a FlexiROC T20 R drill rig and consumables to the mining engineering program at Missouri University of Science and Technology in Rolla, Mo. The FlexiROC



T20 R replaces outdated equipment at the school's nationally recognized Experimental Mine, where students gain valuable hands-on experience with real equipment and mining practices. The Missouri S&T mining engineering program provides a broad engineering education with strong expertise in mining engineering and a cultural foundation for the mining industry. At the Experimental Mine facility, students gain first-hand experience in surface and underground methods, blasting, ground control, ventilation, and pyrotechnic displays, as well as extensive research in air blast and ground vibrations.

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

### GSSI Named New Hampshire's Best Company to Work For

Business NH Magazine has named GSSI the top "Best Company to Work For" for 2019. The annual competition recognizes large and small businesses in New Hampshire that have created outstanding work environments. GSSI was named to the winners' list based on its commitment to creating a company culture that supports and encourages employees through a commitment to work/life balance, training and development, and appreciation programs.

Flexibility and work/life balance is significant to GSSI. Employees and their managers are empowered to work together to determine what schedules work best for the individual and the needs of the team. For added convenience, GSSI created an onsite recreational room where employees can work out, play games and unwind during the day or after hours. The space holds a wide array of gym equipment and has hosted yoga and rowing classes which were a huge hit with employees.

GSSI supports employees with a robust training and development program that includes up to \$12,000 in annual tuition reimbursement, leadership training sessions, seminar and webinar subscriptions, trade courses, and certification. Employees are celebrated as often as possible at GSSI. Each member is welcomed on his or her first day with a swag bag, a lunch with the entire department, and a complete culture book created to provide new employees with a snapshot of tribal knowledge that cannot be found in the employee manual.

Employee appreciation events go beyond annual celebrations at the Employees Appreciation Day and Holiday party, to fun-filled events all year long. Some of these special



events include "Minute to Win it" challenges during the summer, a yuletide "Pouring of the Nag" party on the manufacturing floor, and a regularly scheduled "Lunch with the President" program that builds connections and make it easy for employees to provide input and feedback directly to senior management.

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

### Hilti North America Announces Management Changes



Avi Kahn.



Martina McIsaac.



Dave Wade.

Avi Kahn, Region Head and Chief Executive Officer of Hilti North America, has been promoted to the Hilti Group Executive Board effective Jan. 1, 2020. Over his 15-year career, Kahn has held various roles of increasing responsibility after starting with the company in 2004 in San Francisco, Calif. as an account manager, demonstrating and selling Hilti products to area contractors. He was promoted to the role of Region Head and CEO of Hilti North America in January 2017 from Hilti Canada, where he served as general manager beginning in 2011.

Concurrent with Kahn's promotion, Martina McIsaac, currently general manager of Hilti Canada, will become Region Head and Chief Executive Officer of Hilti North America. McIsaac was chosen following a comprehensive internal search for a candidate with a

proven track record of success, deep understanding of the business and commitment to company culture. McIsaac joined Hilti in 2013 as a senior management candidate and in 2014 became a division manager. Three years later, she was promoted to her current role as general manager for the Canada Market Organization. McIsaac's drive and ability to lead have had a lasting impact resulting in sustained sales growth for Hilti Canada during her tenure. Under her leadership, Hilti Canada has also received numerous recognitions as a best-in-class workplace. Most recently, Hilti was again named to the Top 50 list by Great Place to Work Canada with special recognition on the list of Best Workplaces Managed by Women.

Dan Wade, currently division manager for the Midwest located in the Central Market Organization, will succeed McIsaac as general manager of Hilti Canada, and join the Hilti North America Executive Management Team. Wade has been with Hilti since 2007 when he joined the company in the technical services department after first serving as an engineering intern. Over his 12-year career, he has held a number of positions of increasing responsibility in engineering, marketing and sales before taking on his current role in 2016 as a division manager.

### Epiroc USA Launches Mining and Construction Blog

Epiroc's new Mining and Construction USA blog is a valuable new information hub for the two industries, with content designed to help visitors increase their operations' productivity, safety, and cost efficiency. The blog features engaging posts on best practices, industry trends and innovations, case studies from U.S.-based companies, and more from a team of expert contributors.

While the product range discussed in the blog covers areas in Epiroc's equipment expertise—e.g., drill rigs, rock excavation equipment, construction and demolition tools, and service solutions—the focus of the topics is much broader. Mining and Construction USA blog contributors share trends and detail solutions in the areas of autonomous projects, advanced technology, predictability, interoperability, zero-emission mining, as well as emerging innovation concepts and trends in the mining and construction industries.

The blog home page also features a live feed of Epiroc Facebook posts for real-time news updates, and links to the company's social media.

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



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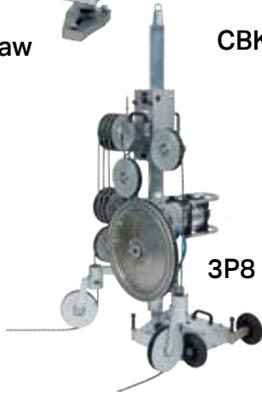
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CW630 HF  
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## Rockwheel Owner to Buy Hartl Crusher



German rotary cutter manufacturer Rokla GmbH, which operates under the Rockwheel brand, has acquired Austrian crusher and screening bucket specialist Hartl Engineering & Marketing GmbH. Hartl was established in 2011, building on the family's longstanding reputation in the crushing sector. Rokla will make available its considerable competences and add resources to allow Hartl Crusher to expand its market coverage and customer base.

Supplying customers in nearly 70

countries, the Hartl Crusher product range is based on many years of experience and innovations, including the Quattro movement. In 2013, its crusher buckets were awarded the internationally renowned Red Dot Design Award. Based in Langenburg, Germany, Rokla has been manufacturing and marketing rotary cutters under the Rockwheel brand since 2013. Rokla has also been ranked among the fastest growing construction equipment companies in Germany.

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



## GSSI Receives Presidential Award for Exports



US Secretary of Commerce Wilbur Ross presented Geophysical Survey Systems, Inc. (GSSI) with the President's "E" Award for Exports at a ceremony in Washington, DC. In total, Secretary Ross honored 48 US companies with the President's "E" Award, the highest recognition any U.S. entity can receive for making a significant contribution to the expansion of US exports. GSSI is the world leader in the development, manufacture, and sale of ground penetrating radar (GPR) equipment, primarily for the concrete inspection, utility mapping and locating, road and bridge deck evaluation, geophysics, and archaeology markets.

American companies are nominated for "E" Awards through the U and Foreign



Commercial Service office network, located within the Department of Commerce's International Trade Administration. Record years of successive export growth and an applicant's demonstration of an innovative international marketing plan that led to the increase in exports is a significant factor in selecting the overall winners.

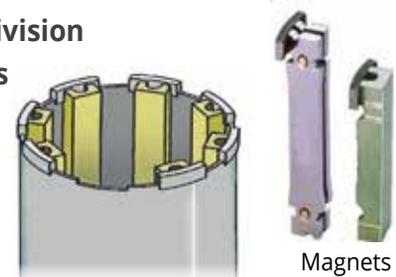
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## McCloskey Announces New Dealer Manager

McCloskey International announces the appointment of Daragh Cullen as Dealer Manager, primarily responsible for dealer relations and recruitment for the Eastern US and Caribbean. Cullen brings an extensive knowledge of the marketplace and over two decades in the industry to the position. Based in Florida, Cullen will continue the close working relationship McCloskey enjoys with



its distribution partners in the region, as well as identify and recruit prospective dealers.

"Daragh's hands-on understanding of the equipment and the customer's requirements allows him to foster key relationships, which will allow our sales organization to keep pace with the demand for McCloskey equipment," says John O'Neill, Vice-President Sales and Marketing for McCloskey International. "This is a great opportunity for him, and for our company, to contribute to the growth and success of dealers in the region."

## Talbert Hires Dealer Development Manager

Talbert Manufacturing welcomes David Henderson as dealer development manager. With the expansion of their Liberty, NC, facility earlier this year, Talbert Manufacturing created the position to support their growing dealer network. Henderson works closely with dealers and Talbert's regional sales managers to develop and grow the 80-year-old company's recognition across the United States and Canada.

Henderson joins Talbert with nearly 30 years of experience in the heavy truck and equipment industry. He previously held the



position of territory manager and OEM sales for Patz Corporation, where he helped build company coverage by growing its dealer network, in addition to other sales and management positions for large equipment dealers over the past three decades.

Henderson's initial focus will be support for Talbert's Tag-A-Long Series, Traveling Axle Series and Hydraulic Tail Series trailers. Expansion of the Liberty facility doubled production capabilities for these lines. It also allowed the OEM to specialize their production between Liberty and the original facility in Rensselaer, Indiana, increasing overall productivity.

## Epiroc USA to open new Regional Service Center for Northeast

Broomfield, Colorado: Epiroc, a leading productivity partner for the mining and infrastructure industries, will open a new, modern Regional Service Center to support customers in the Northeast region of the U.S. The center — located in Harrisburg, Pennsylvania — will be up and running by October 15, 2019. The new Regional Service Center is part of Epiroc's commitment to being an ever-stronger partner for customers. The center will feature a state-of-the-art service shop for Epiroc mining and construction equipment, and it will serve as a home base for field service technicians. Staff at the center will also be available to support customers and provide additional local resources.

"We are committed to being a partner for our customers, not just a manufacturer," said Jon Torpy, general manager and president of Epiroc USA LLC. "We look forward to improving and expanding our service support offerings to our valued customers in the Northeast region."

Until the new Regional Service Center in Harrisburg is fully operational later this year, existing service centers will continue to support customers in the region. Some functions from those service centers will begin to transfer to Harrisburg over the coming months. In addition to the new service center, Epiroc is further investing in the Chambersburg Local Distribution Center in Pennsylvania. The location currently houses Epiroc rock drilling tools and is now expected to stock a robust inventory of spare parts by the end of 2019. The additional in-stock parts will enhance support for customers in the region by allowing them faster access and reduced equipment downtime.

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# From the Valley o

Superabrasive's line of Lavina floor grinding and polishing machinery and diamond tools has grown to be one of the biggest on the US market, with its main production sites located in Krun, Bulgaria, and in Hoschton, Ga. Now the company aims to grow more aggressively both in the US and Europe. PDA Magazine's Jan Hermansson met recently with the company's founder and CEO George Popov and European sales director Svetlana Peneva in Krun, located in a valley known for its plantations of roses, sunflowers, lavender, and rose oil



Some of the staff at the Superabrasive plant in Krun, Bulgaria.

The history of the concrete floor grinding and polishing industry is quite a tale, with few knowing the full story from the early 1990s when everything began, but founder and sole owner of the Bulgarian manufacturer Superabrasive, George Popov, does. Jan is also one of those, who well remember when a new method using planetary grinding heads was developed for efficient concrete floor grinding, and later on, polishing. This method would soon revolutionize the construction industry, and create a whole new market. Jan Hermansson met with Superabrasive's CEO George Popov and European sales director Svetlana Peneva at the European head office and factory in the city of Krun.

## From weapons to diamond powder

Popov was born in the 1960s in a small village not that far from Krun, which was at that time known for the manufacturing of different types of armaments, with one state-owned company called "Arsenal." As such, locals refer to the area as the "Valley of Guns N' Roses," due to the weapons production and the rose plantations.

In 1974 the Arsenal factory began to produce diamond powder to be used in grinding wheels to grind hard

metal. This was actually the beginning of what would later become the company Superabrasive. Following graduation in 1990, Popov was hired by Arsenal to develop its diamond tools production and was promoted to general manager of the division within a year. At that time some 700 people were employed in weapons manufacturing, and 30 were producing diamond powder.

Following the political changes in eastern and central Europe in 1989 the Bulgarian state began to privatise many state owned factories, including Arsenal, with the plant in Krun being acquired by Popov and several partners from the US in 1993. That's when the name changed to Superabrasive.

"What happened in 1989 all over the former Eastern Bloc was of course something positive, but also a collapse of the political and economic systems in all of the countries," he recalls. "It was a very difficult time also for Superabrasive to find new business. I had to find out ways to make money somehow."

The manufacturing of tools for grinding hard metal decreased, and so Popov had to start looking for new markets. This directed his attention to the US, with a business trip resulting in the establishment of an office in

# f Guns and Roses



**The Superabrasive team in USA outside its premises in Hoschton, Georgia.**

various sectors, including the stone industry. This led to Superabrasive starting to make tools for polishing countertops as well as granite and marble floors, directly leading to where the business operates today.

As the new concept of polished concrete became more popular, there was also a growing demand for high-quality concrete grinding and polishing tools. Superabrasive started producing private labeled tools for a number of floor grinding and polishing machine manufacturers including HTC America, King Concepts (now part of Husqvarna), and others. Superabrasive also made private labeled tools for other diamond tools producers for the stone fabrication and rental industries, such as Diamant Board and Pearl Abrasive.

By the millennium, competition from Chinese diamond tools manufacturers was clearly seen with prices starting to drop. Superabrasive increased its product range with machines for grinding and polishing, and began a partnership with a US machine manufacturer. As those machines were rather light and single speed, George Georgiev, then president of Superabrasive US, convinced Popov to start manufacturing a new line of floor grinding and polishing equipment, called Lavina. The first Lavina grinder was launched in 2004.

"This first model actually turned out very good," Popov says with a smile. "In fact, yesterday, a customer came to the office and needed to have service on his Lavina from 2004 which still works very good."

Michigan, while production of grinding tools for optical lenses began in Krun. Shortly thereafter, the factory also started to produce a lot of different diamond tools for



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**Lavina planetary grinding heads utilize timing belts. According to CEO George Popov, the timing belts are more durable and relatively easy to replace. The timing belt has teeth, which keeps it in place, and is superior to a poly-V and a flat belt, which might be slipping during operation.**

The Lavina line has expanded over the last 15 years, with upgrades implemented to meet contractors' growing demand for higher efficiency, productivity, and reliability of the equipment.

In early 2000, the concrete floor grinding and polishing industry really had a global breakthrough. In fact it was considered to be overheated from 2008 to 2012, with many new brands, most of them from China, entering the market. Sometimes a single Chinese manufacturer would sell different brands to different distributors. Since then the global market has consolidated with many brands having disappeared due to lack of quality and service.

Still, several strong brands have consolidated their positions, including Lavina, which is now the brand for all Superabrasive grinding, polishing, burnishing, and dust extraction machines. The latest generation is called Lavina Elite. It includes 11 electric and 6 propane models, starting from a 7-in (178-mm) electric edger all the way to 38-in (965-mm) remote controlled propane machine. In addition, Superabrasive manufactures a 36-in (915-mm) planetary polisher and an electric burnisher LB-21 with a width of 21 in (530 mm).

The company also has its own series of Lavina dust extractors, containing three electric and four propane driven extractors, and recently Superabrasive also launched a series of air cleaners, Lavina LA2000.

Popov stated that the Lavina range has been developed and built to make the daily work for the contractor as easy as possible. The machines are sturdily constructed, being able to withstand tough handling and conditions with minimum down time, and are easy to operate, transport, maintain and service. The Lavina planetary grinding heads utilize timing belts, which are more durable and relatively easy to replace. The timing belt has teeth, which keeps it in place, and is superior to a poly-V and a flat belt, which might be slipping during operation. Superabrasive has used poly-V and flat belts in earlier-generation Lavina machines, but has upgraded all machines to timing belts, whereas some other machine manufacturers still use poly-V belts.

Superabrasive's diamond tool assortment today consists of a large number of different metal, hybrid, and resin tools for coating removal, concrete, stone, and terrazzo grinding and polishing, floor restoration and maintenance, as well as tools for stone fabrication.

Superabrasive also still manufactures tools for the optical industry, and has during the last few years developed its own system for maintaining polished concrete floors called "ShinePro." Kroger, a large US grocery chain, has adopted ShinePro for maintaining the floors of many of its stores. The main reason for Superabrasive's ability to manufacture high and consistent quality of diamond tool is its expertise in the classification of diamond powder,

which is generally bought unclassified from a third party supplier. Making sure that the right diamonds are being utilized for the right applications guarantees the excellent performance and reliability of the tooling.

### Major expansion in Krun and Hoschton

Today, about 50% of Superabrasive's production consists of machinery. More than 300 people are employed at the plant in Krun, with the highly loyal staff consisting of many employees who have been with the company for decades, including some who were there in 1990. In some cases, whole families work for Superabrasive, with most of them being from Krun or the surrounding region. Production is



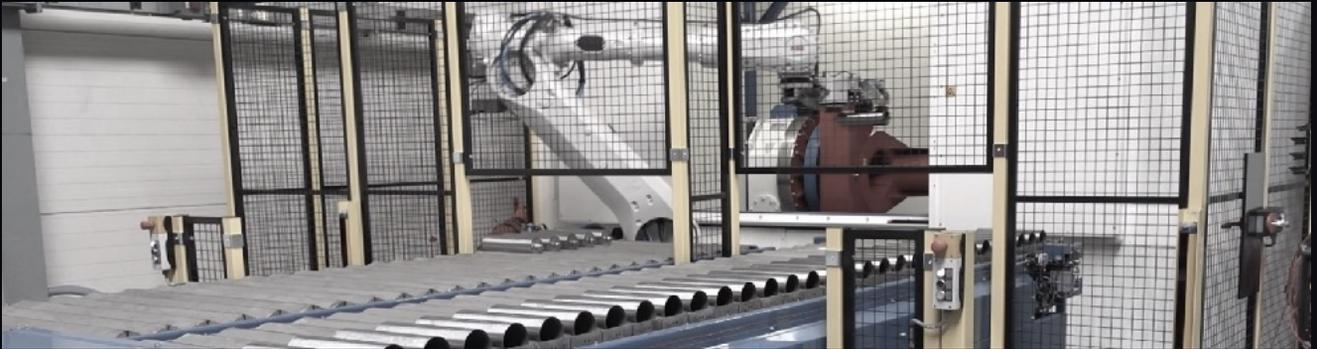
**Part of the Superabrasive factory in Krun, Bulgaria.**



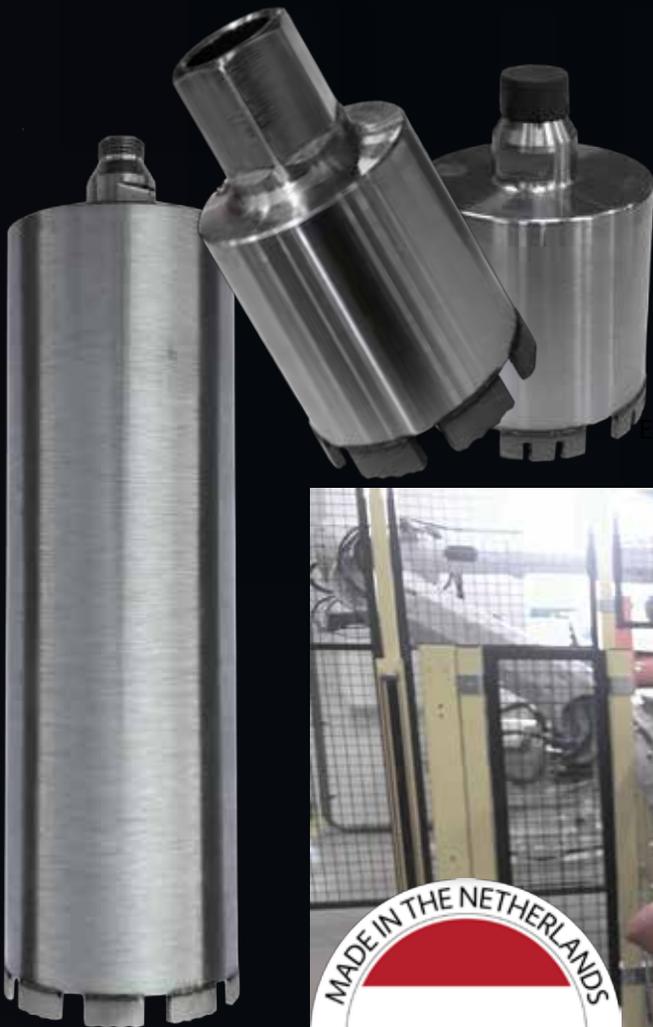
**Head office and assembly for the US market in Hoschton, Georgia.**



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**The new production plant for grinding machines in Krun which opened during August this year.**



**New land ready for construction in Krun.**



**The powder painting department.**



**Ivan (left) production manager for the diamond tool division, shown with his colleague Minko, is among the many employees who have worked for Superabrasive from the start.**



**Machining of the grinding heads in Krun, Bulgaria.**

divided in two shifts, with each morning three company buses picking up workers from their homes and returning them at the end of the shift.

Currently the plant covers approximately 338,000 ft<sup>2</sup> (31,400 m<sup>2</sup>). A new production facility dedicated to Lavina machines, measuring 69,000 ft<sup>2</sup> (6,400 m<sup>2</sup>), was finalized at the end of August this year. An additional building, measuring 53,800 ft<sup>2</sup> (5,000 m<sup>2</sup>), is also being constructed and is expected to be operational by the end of January 2020.

"We have a lot of work, and we are quite overcrowded in the older parts of our facilities," says Popov, "so the new extensions will be appreciated." Anticipating additional expansion in the coming years, Popov has also acquired a large 430,000 ft<sup>2</sup> (40,000 m<sup>2</sup>) lot adjacent to the plant.

The US is currently the biggest market for Superabrasive Nikolay Nikolaev, the current president of Superabrasive US, believes that the company is one of the top five flooring equipment manufacturers in the country. In 2002, the company relocated from Michigan to Georgia, and has been home to US operations ever since. The 80,700 ft<sup>2</sup> (7,500 m<sup>2</sup>) operation includes the manufacturing facility for the ShinePro diamond impregnated pads, with a recently acquired 280,000 ft<sup>2</sup> (26,000 m<sup>2</sup>) lot eyed for warehouse expansion. Superabrasive now employs approximately 30 people in the US, and is selling exclusively through its authorized network of distributors and dealers, similar to what it has been doing in Europe and other international markets.

The rental industry in the US has been a big growth engine for Superabrasive, with the company having a nationwide network of large and small rental dealers that are served by two of Superabrasive's strategic partners in the US – Niagara Machine and Concrete- Polishing HQ.

"We see a steady growth in the demand for concrete grinding and polishing equipment," says Popov. "Even nationwide companies, such as Sherwin-Williams and Sunbelt Rentals, have been attracted by the potential of the concrete flooring market and have been utilizing the Lavina line of machines."

Superabrasive was the first company to supply a low-profile propane driven grinder to the US market in order to meet Wal-Mart's need for a high-speed grinding and polishing machine that was able to polish under the racks in its stores.

Superabrasive today has its own certificate to convert gas-powered Kawasaki engines to propane at the plant in Hoschton, and is proud to offer the newest Lavina Elite propane machines with some of the cleanest propane engines in their respective classes.

Even though Superabrasive fought for survival early, it is very healthy financially today, with no external investors in the company. One competitive advantage that Popov is really proud is Superabrasive's ability to produce almost all of its products and major components in-house, whereas many other manufacturers buy parts from component manufacturers, and then assemble their products.

"We make everything in house which makes us far more efficient," he says. "For instance, we send containers with machines and spare parts from Krun to the US every week. It is a constant flow. Now that we are expanding our facility in the US we will be even better positioned to meet the growing demand of the US market."

Besides its US facility, Superabrasive also has sales offices in the UK, Turkey, and the Ukraine, as well as a global network of 30 independent distributors.

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



**Superabrasive buys unclassified diamond powder from several high-quality suppliers and they do make the classification themselves in Bulgaria.**



**Above grinding tools produced in Krun, Bulgaria.**



**Superabrasive's answer to Twister, Superabrasive ShinePro.**



**The first Lavina model in 2004, some still running today.**



**Machines ready for dispatch.**

# Modernization of the Cernavod Nuclear Power Plant in Romania

Romania's only nuclear power plant is located in Cernavod, a small town near the Black Sea coast. The power plant consists of two blocks and produces about 20% of the electricity for the entire country. As part of a block modernization project, approximately 400t of concrete had to be decommissioned in a controlled manner under the strictest safety conditions.

Diamond Drilling SRL used machinery from Tyrolit to complete the task including the dismantling. Its main assignment was to cut and remove 72 linear ft (22 m) of reinforced concrete walls more than 17 ft (4.5 m) high and 29.5 in (750 mm) thick. The project team also removed many large concrete columns as well. The Tyrolit tool arsenal included WCE14 and SB-E electric wire saws, and the WSE2226 wall saw.

Despite a very hard concrete quality, as well as bad weather conditions with freezing temperatures, the job was completed in half the schedule time.



Cutting of a reinforced concrete column with the wire saw SB-E. (Photo: Diamond Drilling)



Dismantling of 22 running meters of reinforced concrete walls. (Photo: Diamond Drilling).

The employees of Diamond Drilling SRL proved that with the machines from Tyrolit even the toughest conditions are no problem.

[www.tyrolit.com](http://www.tyrolit.com)  
[www.diamondproducts.com](http://www.diamondproducts.com)

The SB-E and WCE14 wire saws in action. (Photo: Diamond Drilling).



## Dust-free Site with Water Mist from Dynaset

Dynaset HPW-DUST High Pressure Dust Suppression System produces atomized water mist which prevents dust particles from spreading to the environment. Users can control the water jets with an excavator's joystick.

The double dust feature gives an additional boost when needed. The system is easy to install. While dust suppression nozzles can be located on a boom, installing them on a pulverizer achieves higher efficiency and better targeting. High-pressure water can be led to the pulverizer's nozzles through the line in a coupler system.

The dust suppression system is powered by the hydraulics of an excavator. That means no additional engines or additional labor. Users save water as well, reducing waste that occurs when integrating suppression equipment into an excavator or another mobile machine.

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



# Brokk Offers Three Darda Concrete Crushers For Reinforced Concrete Applications

Brokk has launched three new concrete crusher models — the CC440, CC480, and CC580. The attachments, manufactured by Brokk's German sister company, Darda, offer contractors a high-performance tool for Brokk's Next Generation SmartPower™ series, increasing operator safety and productivity on a variety of tough demolition jobs including top-down and interior demolition.

The three new crushers are equipped with a newly designed pressure booster, which allows them to operate independently of the carrier's working pressure, resulting in increased speed and crushing forces. When used in high-pressure mode, the new models offer faster operation and jaw closing compared with their predecessors. The crushers excel in challenging applications, such as elevator shafts, piers, concrete walls and

ceilings where reinforced concrete is present.

In addition, the CC series offers virtually silent operation, making them ideal for jobsites with strict noise restrictions, such as interior demolition projects in occupied spaces like hospitals and office buildings, where traditional methods, such as hydraulic hammers, would be too noisy.

With large jaw openings and a crushing force of 44 to 54 tons depending on model, the new crushers can easily handle concrete slabs 17-22 in (440-560 mm) thick. Additionally, all three crushers can cut through rebar up to 1.2 in (30 mm) in diameter, while keeping to the same size and weight class as their predecessors.

The new models are available with Darda's standard features, including wear-resistant, replaceable steel alloy crusher tips and

cutter blades, as well as a full 360-degree rotation. Additional teeth are available for greater efficiency and crushing, enabling higher breaking forces for hard, thin walls and separation of concrete and rebar.

Despite their compact size, Darda crushers can easily keep up with the perfor-

**Brokk's new CC440, CC480 and CC580 concrete crushers feature large jaw openings and a crushing force of 44 to 54 tons.**

mance of larger, heavier models. When paired with a Brokk machine, the new concrete crushers are controlled with a belt-mounted remote-control box, allowing operators to work from a safe distance without concern for vibration, silica dust-related health issues or falling debris.

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## First Bobcat Electric Excavator Comes Off Production Line

Bobcat has announced that the first of the company's new E10e zero tail swing (ZTS) 1t electric mini-excavators has come off the production line at the Bobcat compact equipment manufacturing plant at Dobris in the Czech Republic.

Doosan Bobcat chose the Dobris factory to produce the E10e for all markets worldwide, with the first machines to be sold in EMEA (Europe, the Middle East and Africa) region. North America and Asian markets will soon follow.

The E10e is built on the same platform and produced on the same production line as the diesel-powered E08 and E10z mini-excavators. This line currently has a total capacity of 2000 machines a year and can produce the required mix of diesel and electric models as dictated by actual market demand.

The Bobcat E10e is the world's first 1telectric mini-excavator, combining zero emissions, low noise and a width of just 71 cm, allowing it to easily pass through standard doors and in and out of lifts. It is ideal not only for indoor demolition and basement digging, but also many other sites where this type of machine is required such as urban developments, nighttime work, and contracts in quiet zones such as hospitals, cemeteries, and schools.

The E10e has a state-of-the-art lithium-ion, maintenance-free battery pack with an advanced management system, designed to fit within the standard machine envelope to maintain the machine's ZTS profile, matching all the parameters and dimensions of the standard diesel-powered E10z mini-excavator. Based on customer studies, Bobcat has optimized the battery pack to provide capacity to match typical work patterns.

The E10e can therefore be operated for up to four hours on one charge. By using an optional external 400V supercharger, it can be recharged to 80% of its capacity in less than two hours. As a result, the E10e can operate throughout a full working day when used with normal work breaks. The battery can also be fully recharged overnight by using the on-board charger.

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



## Aquajet Systems Introduces Ergo Rotolance Hydrodemolition Attachments



**The powerful Ergo Rotolance tools from Aquajet Systems AB work in conjunction with the Ergo system and the Ergo Climber and Ergo Spine with specially designed patterns of nozzles.**

Aquajet Systems offers the new Ergo Rotolance series. Designed specifically for the Ergo system, the new series features three size options — the 30, 130, and 130S. The series effectively cleans, removes and roughens concrete, leaving a better bonding surface for new concrete or alternative materials. Contractors also can use the Ergo Rotolance attachments to remove rubber coatings, paint, rust, plastic and other materials.

The Ergo Rotolance series is commonly used in maintenance and removal applications at airports, harbors, water treatment facilities, reservoirs and petrochemical plants. The series can handle water pressure up to 43,500 psi (3,000 bar) through

specially designed patterns of nozzles. The attachments offer new versatility for the Ergo System and are compatible with the Ergo Climber and Ergo Spine to get access in confined or hard to reach places. As an alternative to sandblasting, the Ergo Rotolance series eliminates dust pollution and the need to dispose of contaminated sand.

The Ergo Rotolance 30 self-rotating tool has four nozzles and a 1.2-in (30-mm) spray pattern. Contractors can use their own favorite hand-gun tools on the Rotolance 30, thanks to a multi-bracket system with an adjustable span of .5 to 2 inches (14 to 51 millimeters), making it an ideal positioner.

The Ergo Rotolance 130 and 130S work at pressures ranging from 1,450 to

43,500 psi (100 to 3,000 bar) and leave a smooth surface when cleaning or removing hard paint, rust and rubber from areas such as airport runways. They feature up to eight nozzles for a 5.1-in (130-mm) spray pattern. A hydraulically driven swivel allows for precise control of rotation speed for even results. The 130S is also equipped with a suspension system, allowing it to follow uneven or curved surfaces such as ship hulls and storage tanks. In addition to a wider range of movement, the suspension mechanism has an ingenious design that allows the spring force to be adjusted in four steps and can, at the same time, lift the rotor head up from the surface to make assembly and inspection of the result easier.



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# Kinshofer Offers a Series of Biomass Handling Solutions



**KINSHOFER's P-Series grapples are available with three, four or five tines, as well as a wide range of tine profiles.**

Kinshofer offers a series of biomass handling solutions. Four styles of grapple attachments, the C-, P-, D- and T-Series, are each designed to handle a specific type of biomass. Constructed of heavy-duty 500 HB steel, the grapples are powered either by Kinshofer's HPXdrive, a proven and low maintenance system, or by heavy-duty hydraulic cylinders. Both options ensure components are protected, reducing damage and extending service intervals. The HPXdrive system delivers rotation from two hydraulically driven pistons, providing precision and exceptional closing force. The C-Series includes regular clamshell buckets recommended for dry, bulk biomass, such as grain, sawdust or wood pellets. The C-Series can be used with carrier operating weights up to 80 tons, as well as a wide range of different shells that can be easily refitted onto carriers.

The P-Series is a complete range of orange peel grapples available for carriers from 16 to 80 tons. All P-Series models are powered with heavy-duty cylinders, the components of which are enclosed to minimize damage and maintenance. The wide opening ranges guarantee penetration and release of materials such as agricultural waste, turf, mulch, twigs, small branches, and waste wood.



**KINSHOFER's D-Series includes demolition and sorting grapples for carriers with operating weights up to 9 tons.**

The D-Series includes demolition and sorting grapples for carriers with operating weights up to 70 tons. The shell design is ideal for mixed biomass, and is used for loading, sorting, digging and demolition. Several models are equipped with an enclosed 360-degree rotator, making them ideal for underwater applications. The rotator's heavy-duty construction and low height allow for versatile operation in both demolition and sorting.

The T-Series timber grapples are ideal for handling forestry biomass such as logs and large branches. The closing mechanism



**KINSHOFER's T-Series includes a variety of timber grapples designed to handle forestry biomass such as waste logs or large branches.**

and tight grip allow the grapple to clamp more than one log at a time. The attachments fit excavators with operating weights up to 100 tons, with many models featuring 360-degree endless rotation. All include an integrated non-return valve to secure loads if pressure drops.



**KINSHOFER C-Series grapples are ideal for dry, bulk biomass, such as grain, sawdust or wood pellets.**

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# HTC 510 - Simplicity in a New, Larger Size



In January 2019, HTC launched Start & Grind, a new line of floor grinders and dust extractors with the focus on user friendliness and ergonomics. Now, a new machine joins Start & Grind— the HTC 510. The HTC 510 is a powerful planetary grinder with three counter-rotating grinding heads, making this a versatile grinder suitable for applications ranging from stripping floors to grinding and polishing concrete, natural stone, and wood. The grinder is available both in a single-phase and three-phase model, from 2.9 hp to 5.3 hp (2.2 kW to 4.0 kW), and features a grinding width of 20.2 in (515 mm).

A major advantage of the HTC 510 is the machine's hermetically sealed grinding head, which provides unparalleled protection from dust and moisture, and significantly increases the service life of enclosed components. As with the other grinders in the line, the HTC 510 chassis can be easily detached from the motor and folded for easy transport.

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

## Other models in HTC's Start & Grind line include:

- HTC 450 – versatile planetary grinder with three counter-rotating grinding heads
- HTC 400 – powerful grinder with a large grinding disc and high grinding capacity
- HTC 280 – efficient grinder with integrated edge-grinding capabilities
- HTC D10 – light dust extractor that is ideal for handheld grinders
- HTC D20 – powerful dust extractor recommended for use with the HTC 280 and 450
- HTC D30 – very powerful, single-phase dust extractor with three large vacuum motors
- HTC PS30 – pre-separator that separates large particles that can occur during floor preparation



## Save Money and Become More Efficient the Diatip way



Nice new slots for brazing of new diamond segments.

Jack Midhage is one of the legends of the Swedish concrete cutting industry. He founded one of the country's leading namesake diamond tool manufacturing and building machinery suppliers, and is well-known internationally for developing the mobile diamond segment-retipping device, Diatip.

Although Midhage passed away in 2005, his legacy still lives on. The Diatip system is sold worldwide from the Midhage Diatip AB company, which is run by his children, Carina and Morgan. The Diatip system is a smart solution that enables concrete cutters to tip core drills themselves, rather than outsourcing the work or purchasing new bits. With the Diatip device, a sufficient stock of freshly retipped drill bits will always be available



Carina Midhage, President at Midhage Diatip AB.

ready to work on new jobs right away. What's more, the retipping procedure is easy. In just minutes, the Diatip device revives a worn-out tip by cutting between the first rows of slots. The worn ring of diamonds falls off, and the surface is ready for brazing of new diamond segments.

The Diatip series consists of four different models. The CD 7-28 Manual is the basic model and works without electricity to retip drillbits from 1.5 in to 27.5 in (38mm to 700mm). A hydraulic version of this machine is also available. The CD 600 Economy has the



Jack Midhage, founder of Midhage Diatip AB.

same functions as the basic model, but is easy to transport, allowing retipping of core bits up to 23.6 in (600 mm) even on the worksite.

The most advanced model, the CD 7-28 Automatic, cuts off the worn end of the old core bit and makes indexed regulated slots completely automatically. The required number of segments, and the depth of the slots for the segments is then set, with the system equipped with a hydraulic motor for cutting and a PLC-controlled electrical motor for

feeding. During the brazing process, rotation of the bit is regulated by a foot pedal, leaving both hands free for the silver rod and gas pistol. Besides the actual retipping machines, magnets to hold the new

diamond segments are also produced and sold by Midhage Diatip. The company also sells silver and flux for the brazing as well as a number of accessories.

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

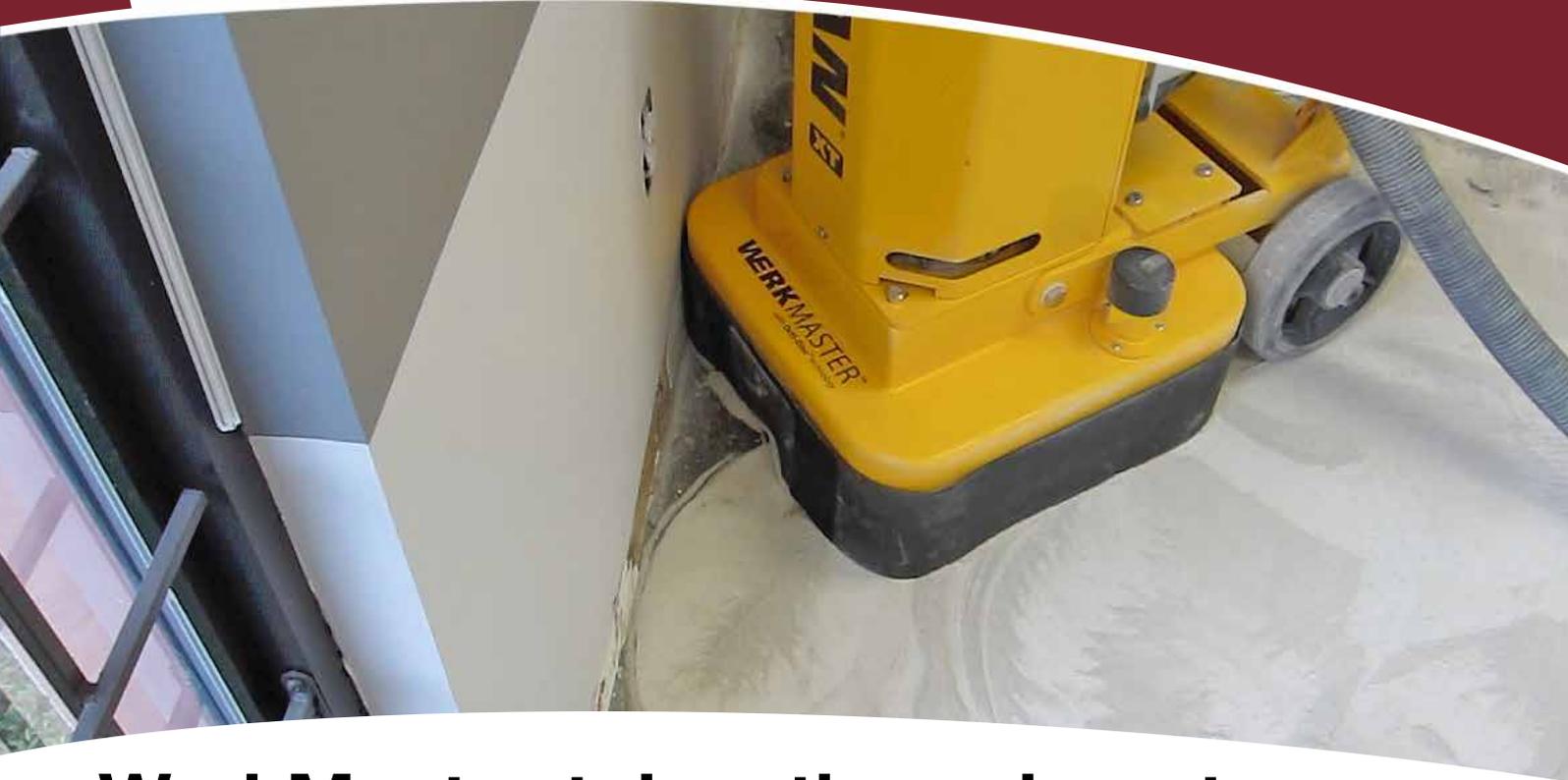


The CD 7-28 basic manual version.

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# Pentruder Modularity Benefits Drilling Work

**A small Stockholm, Sweden, concrete cutter, Norrorts Betonghåltagning AB knows at first hand the benefits of using the full potential of Pentruder modularity.**

The two Pitkonen brothers, Hannes and Oskar, founded the company Norrorts Betonghåltagning AB some years back.

"I started out in demolition in 1994 and got the question if I could drill," Hannes recalls "The answer was 'yes of course.' I soon realized that it was a bit more to it. I eventually got employment at Håltagarna Borrteknik and was trained by 'the old school guys' who used to work at Urab, another large concrete cutting contractor at that time. They introduced me to Pentruder. In 2015 me and my younger brother Oskar started our own concrete cutting company, Norrorts Betonghåltagning AB, and from that it all took off.

## Hired for the largest Stockholm downtown infrastructural project in decades

Today there are five concrete cutters in the company, and even though it is small, the jobs are not that small. Its first real big special job was when a contractor contacted the company with a request to drill three 23.6-in (600 mm) diameter holes, around 18 ft (5.5m) deep, and located 6.5 ft (2 m) below the surface, in the docks of the Värta harbor in Stockholm. No one really knew how hard the aggregate was nor how heavily reinforced the dock was.

"Our first Pentruder was bought for this project, a hydraulic MD1," says Hannes. "We tried several different solutions and machines at first, but finally when we got the MD1, it was like cutting in butter." The drill bit was delivered by Pentruder distributor Scandinavian Diamondtool Consulting (SDC) and was 7.5 ft (2.3m.)

In recent years, Norrorts Betonghåltagning AB has been contracted by the construction company Implenia for large infrastructural project in Stockholm. One such job involved a large lock

and traffic point at Slussen, where boats, cars, subways, bicycles and pedestrians meet in the centre of Stockholm, which is going through a large modernization process. The job involved several



The 47-in (1,200-mm) core.



The hydraulic MD1 was used for the hole in Värta harbor in Stockholm.



projects, with wire, wall sawing and core drilling.

"Last summer we got the task to take down some walls in an old chamber with the Pentruder 8-20HF wall saw," says Hannes. "There were no drawings which we could access since parts of it were some sort of old military facility no longer in use. Every time we thought we were done, they found another level of concrete underneath the gravel." In total, 450 tons of concrete was removed.

Hannes adds the job couldn't have been done without the ability to position the Pentruder track feet in different angles, adjust them and also mount one on the floor and the rest on the wall. Today Norrorts Betonghålltagning AB has a Pentruder 8-20HF Wall saw, one HF and one hydraulic MD1 Core drill, wire saw modules and accessories such as a stitch drilling carriage. The newest machine is the MD1, a heavy-duty core drill, which really

impressed when drilling a 21-in (540-mm) deep and 47-in (1,200 mm) diameter hole in a heavily reinforced old concrete bridge beside the Hilton Hotel at Slussen.

The set out was 26 ft (8 m) up the wall and the cutters had to build a rig that was stable enough for the heavy core, which was to be removed. The core bit alone weighed more than 440 lb (200 kg) and took quite an effort to get it in place. Once the drill started to spin, however, the cutting didn't take longer than 2 hours before the hole was complete.

"For us it is so important with the power and the modularity of Pentruder," says Hannes. "The machines are real beasts that are designed for us professional cutters, and they save us a lot of time both in setting up and completing the job."

Pentruder is sold in the US by ICS Blount.

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

Above the Pentruder MD1 heavy duty core drill, a 15 kW HF motor and auto feed, the 47-in (1,200 mm) diameter cutter took less than 2h to complete.

Below a Pentruder wall saw cutting at the large infrastructural project "Slussen" in the center of Stockholm.



## Indeco Hammers Used for Mexican Bridge Construction

Indeco Mexico sold ten hammers to Volvo dealer Ascendum in six months. Their first order was for three HP 7500s for its customer CODESA, a construction company in Querétaro working on a bridge construction project. The project involved building a 700-m long vehicle bridge with a maximum height of 7-m and the excavation and removal of approximately 18,300 yd<sup>3</sup> (14,000 m<sup>3</sup>) of basalt. The bridge is located in Querétaro on the road to Celaya, known to locals as “Colonia Balvanera,” hence the name “Balvanera Bridge.”

Even though the basalt was particularly hard, the jobsite’s close proximity to the city prevented the use of explosives. CODESA also needed to complete the job quickly so that the road could be opened up to traffic just as soon as possible. The first three hammers proved to be a great hit, so the company purchased another seven Indeco hammers, five HP 7500s and two HP 8000s. Having to work for 20 hours a day in extreme conditions, the Indeco hammers stood out in terms of performance, thanks also to the assistance and consultancy from Indeco North America, who managed to solve all the technical problems.

[www.indeco-breakers.com](http://www.indeco-breakers.com)



## Cutting is the Key for the Perfect Trench

At a jobsite in Assamstadt, Germany, Schwarz GmbH used a Rockwheel for the very first time. The Rockwheel D20 was perfect for their trench excavation and other supply lines. The project called for expanding a storage building for a woodworking company. Foreman Oswald Lienhardt decided to use a Rockwheel D20 for trenching on this project due to its 39-in (100-cm) width, which ensured accurate work to achieve the desired dimensions without any costly filling work. Machine operator Jochen Kalinkas ran the Rockwheel fast and accurately through the layered rock soil.

Before using a Rockwheel, the company used a hydraulic hammer as well as a ripper tooth for excavation and trenching. Using these attachments for this kind of work creates a funnel shaped trench, which often leads to undesirable breakouts and significant filling work on the side walls.

Instead of ripping or breaking the rock the Rockwheel cuts through the material and leaves an even sidewall structure, working up to five times faster than a ripper tooth or a hydraulic hammer. The low noise and low vibration level of the Rockwheel means it can be used in residential areas without causing significant nuisance for the neighborhood.

The construction team found the precision and quality of the outcome particularly impressive.

“With the Rockwheel I can mill off just 1 cm if the foreman asks me to do so,” says Kalinkas.

Approximately 1,575 ft (480 m) of trenching was performed with the Rockwheel D20 in the layered clay rock soil.

“Another great advantage of the Rockwheel is the reusable excavated material”, says Lienhardt. “It is almost like gravel and can be used to back-fill the trench later.”

When filling the trench, the homogeneity and the consistency of the material are the main factors, determined by the grain size and mixture. The Rockwheel leaves a consistently small-sized grain similar to gravel, which can be used directly for refilling the trench. When solidifying the

soil the uniformity of the material plays an important role in preventing the emergence of bumps or sink holes on the surface once the ground settles.

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



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Dr. Martin Goedicke-meier, Hilti, Liechtenstein and Mr. Sheikh Kaamil, Hilti India.

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**13 Nov, 2019**  
**Venue: Hotel,**  
**Sahara Star,**  
**Mumbai, India**



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**Recycling C&D waste, C-Farm**  
 Dr. Vimal Kumar from C-farm will speak on sustainable recycling of waste in India today and in the future.



**Safe Nuclear Decommissioning**  
 Mr. Youssef Hallak will speak about nuclear decommissioning using demolition and concrete cutting techniques.



**Dismantling of the MG Sethu Bridge**  
 Mr. Uttkarsh Menta, partner at Indian contractor Edifice will discuss the dismantling of Gandhi Sethu Bridge.



**Safe and Efficient High-rise Demolition Equipment**  
 Mr. Prashant Bharadwaj, Head of Volvo CE India South will present the Volvo high-rise range of demolition crawlers.



**The IDA Initiative**  
 Mr. Mohan Ramanathan, MD of Act Industries, India and founder of IDA Demolition Association will deliver a welcome address.



**Making Cross Passages in Mumbai Metro New Line 3**  
 Lecturer holder Mr. Sunilkumar Vishwakarma, Head Planning, CEC-ITD Cem TPL JV Company.



**Safe and efficient demolition using remote controlled demolition robots**  
 Insights from Mr. Joakim Furtenback, Global Sales Director at Brokk AB.



**Global Co-operation and Networking**  
 Mr. Michael Findeis, President of will discuss the IACDS association of global concrete cutters.



**European Demolition Association**  
 A representative from EDA will be on hand to discuss association's activities.



**The Demtech initiative**  
 Mr. Jan Hermansson, Editor-in-Chief of PDI Magazine and media partner of Demtech will also deliver a welcome address.

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# Demtech India is Taking Shape

The agenda for India's first demolition conference, Demtech, is taking shape. The Hotel Sahara Star in Bombay is the place to be on November 13 for those working with demolition, recycling, remediation, or concrete cutting in the country.

Demtech India 2019, India's first conference dealing with demolition, recycling, remediation and concrete drilling, is just weeks away. In conjunction with the conference, the Indian Demolition Association, India's first trade association for demolition, recycling, remediation, and concrete drilling will be formally launched with a grand ceremony. In advance of Demtech India, IDA has gotten started with local meetings with entrepreneurs.

"We have met great interest from entrepreneurs around the country, both to the Demtech conference itself and to the association itself," says industry veteran Mohan Ramanathan. "We expect membership to soon exceed 100."

## Heavy Sponsors

IDA is the main organizer of Demtech India, with support from Riverbends Publishing and PDA's international sister publication, PDI.

Volvo CE is Demtech India's main sponsor. Among the event's many Associate sponsors are Epiroc, Hilti, Sennebogen, Brokk, and Aquajet Systems. Affiliate sponsors include Husqvarna Construction Products, Edifice



**Venue: Hotel Sahara Star next to the international airport in Mumbai.**

(an Indian demolition company), Pentrunder, Shearcore's Fortress brand, Kobelco, Kemroc and Tyrolit. All sponsors



**India's first demolition association will inaugurate at Demtech India in November this year.**

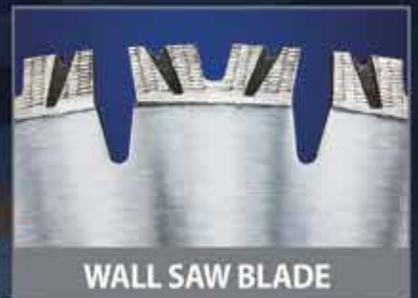
have booths in the exhibition area. Ramanathan expects more sponsors to emerge.

As this is the first Demtech event in India, there will be a smaller exhibition section directly adjacent to the conference and some table top booths where exhibitors have the opportunity to discuss their products. Currently there are four table-top exhibitors: Trevi Benne, Rotar, PDI Magazine and IDA.

"We have deliberately kept a fairly low profile in terms of the trade fair," says Ramanathan, "but the idea is that Demtech will be held every year and we hope to make a bigger trade fair in the future. This year, the conference and trade fair will be an important place for networking."

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**Interesting Lectures**

The Demtech India project team is working intensively to complete the packed program, but there is already a preliminary program.

The day begins at 10 am with an inauguration ceremony, chaired by a minister of the Indian Parliament. This will be followed by welcome speeches by Mohan Ramana-

than and PDI Magazine's editor-in-chief, Jan Hermansson. Dr Gaurav Bhatiani, chief economist at IL&FS, Ltd., will present the current situation in the Indian economy with a focus on the construction and civil engineering industry. There will be presentations from sponsors as well as accounts of different methods.

A number of Indian cases stories will be presented as well. They include Bombay's subway extension, where Brokk demolition robots have played an important role. The extensive demolition and dismantling of the Mahatma Gandhi Sethu Bridge, spanning the Ganges River in Bihar, will be presented by the Indian contractor Edifice. There will also be presentations by Michael Findeis, president of International Association of Concrete Sawers & Drillers (IACDS) and a representative from the European Demolition Association.

The day continues with a presentation of an advanced decommissioning of a nuclear power plant in

Romania where different types of demolition methods were used. According to demolition and concrete drilling contractor Youssef Hallak from LT Diamond Drilling, the plant consists of two reactors that produce about 20% of the country's annual electricity. For a reactor undergoing a modernization, it was necessary to remove about 400t of concrete under controlled conditions and strict safety procedures. Equipment from Brokk and Tyrolit figured prominently in the demolition. Finally, Dr.Vimal Kumar will present the work at India's largest recycling plant C-Farm.

Attendees will also have plenty of opportunities to visit the exhibition area. The conference day ends with a panel discussion. IDA will then hold its first committee meeting before the festivities in the evening begin with a gala dinner and the dedication of the association. A more detailed program can be found at the events website.

# Meet the Presenters

## GAURAV BHATIANI

Gaurav Bhatiani has more than 22 years of specialized experience in the energy and infrastructure sectors. In his current role as Chief Operating Officer at IL&FS Limited, India's leading infrastructure and financial services company, Bhatiani is involved in policy analysis, planning and business strategy, commercial transactions in various infrastructure verticals including energy, urban infrastructure, roads, and ports.



## Dr. Vimal Kumar

As the founder Mission Director, Fly Ash, Department of Science & Technology (DST), Dr. Vimal Kumar conceived and implemented the Fly Ash Mission and turned around the image of fly ash from "polluting industrial waste" to "resource material". Kumar is also a national expert for C&D waste management, reuse, processing, and manufacture of downstream products, as well as for new construction technologies for mass housing and high rise buildings. He has developed National Guideline for Re-use and Recycling of C&D Waste, including indicative feasibility report for 8 cities, among other things.



## Nuclear Decommissioning: Youssef Hallak, LT Diamond Drilling

Demolition and concrete drilling contractor Mr. Youssef Hallak from LT Diamond Drilling will lecture on demolition and concrete drilling at a nuclear power plant in Romanian Cernavod. The nuclear power plant consists of two reactors, which produce about 20% of Romania's electricity needs annually. One reactor is undergoing a modernization and for this reason it was necessary to remove about 400t of concrete under controlled conditions and strict safety procedures. The contractor used, among other things, equipment from Brokk and Tyrolit.



## Extension of the Mumbai Metro, Sunilkumar Vishwakarma

Sunilkumar Vishwakarma, Head of Planning for Tata Projects, Mumbai Metro CIT JV, has 17 years of experience majorly in planning & monitoring, tendering, estimation, coordination, project management and business development for underground works in hydro

and metro sectors. He has worked in projects like Collectors' Tunnel, Ghatghar Dam, Maharashtra, Chamera-III & Sainj HEP, Himachal. He has been working on the Mumbai Metro Line-3 project since 2016.



## Dismantling of the Mahatma Gandhi Sethu Bridge, Uttkarsh Mehta

Uttkarsh Mehta, a partner with Edifice Engineering India, will present the complicated project to dismantle the Mahatma Gandhi Bridge.



## Welcome addresses from IDA Demolition Association and PDI Magazine, Mohan Ramanathan and Jan Hermansson

Mr. Mohan Ramanathan, initiator of IDA Demolition Association and the Demtech India conference, will hold a short welcome speech at the beginning of the conference on 13 of November in Mumbai. The international demolition journal, PDI Magazine, is official media partner and promotor internationally of Demtech India 2019. Mr. Jan Hermansson, Editor-in-Chief for PDI Magazine, will also hold a short welcoming speech at the conference.



## High ranking Indian politician to open Demtech India

The Demtech India conference 2019 will be opened by a high ranking politician from the Indian parliament. At this moment a few different names are being discussed, meaning that PDI is not able to reveal who will open the event at this stage. More information can be found at [www.demtech.in](http://www.demtech.in) shortly.

## Safe and Efficient Highrise Demolition Equipment, Prasant Bharadwaj

Prashant Bharadwaj, Head of Volvo CE's South India business unit, will hold a



lecture concerning safe and efficient high-rise demolition machines and equipment.

## Controlled demolition using advanced diamond technology, Hilti

Dr. Martin Goedickemeir, Hilti's head of Diamond Systems Service Contractor Segment, and Sheikh Kaamil, Heavy Diamond manager at Hilti India Pvt. Ltd., will hold a joint lecture on controlled demolition using advanced diamond technology.



## Safe and efficient demolition using remote controlled robots, Joakim Furtenback

Joakim Furtenback, sales director at Brokk AB, will make a presentation about how Brokk, the maker of remote-controlled demolition robots, went from being a small family based company to become the 'standard setter' for equipment used on demolition or tunnelling sites throughout the world. Additionally the robots are purpose built for demolition, providing performance superior to any conventional excavator, resulting in Brokk demolition robots being successfully used today in the city of Mumbai.



## Hydrodemolition, the superior method, Bjarne Axelsson

Bjarne Axelsson, Account Director at Aquajet Systems will explain the superiority of using hydrodemolition techniques for concrete repair and demolition.



## Presidents of IACDS and EDA to speak at Demtech India

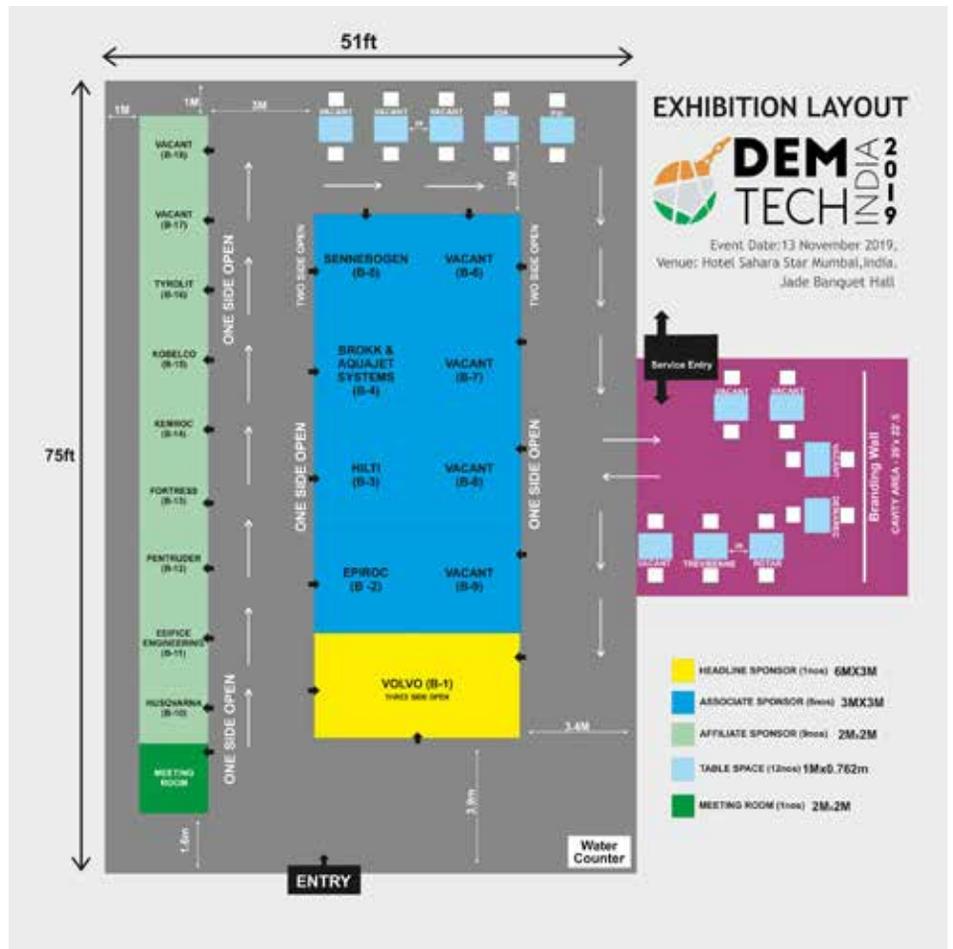
Michael Findeis, president of the International Association for Concrete Cutters & Sawsers and a representative from the European Demolition Association, will participate and make presentations.



# Demtech India Agenda

Date: 13th November, 2019 • Venue: Hotel Sahara Star

10:00 AM	Inauguration	By Indian Politician - Chief guest	
10:30 AM	Welcome Address IDA	Speaker: Mr.Mohan Ramanathan	
10:40 AM	Welcome Address PDI	Speaker: Mr. Jan Hermansson, Editor-in-Chief PDI Magazine	
10:50 AM	Key Note Speaker:	Indian Construction Economy – Today and the Future	Speaker: Dr.Gaurav Bhatiani – Chief operating officer - IL & FS Ltd.
11:20 AM	Tea break		
11:35 AM	Volvo CE Headline sponsor presentation	Safe and Efficient Highrise demolition Equipment	Speaker: Mr Prashant Bharadwaj, Head of Volvo CE Business Unit South India
11:45 AM	Epiroc Associate sponsor presentation	Speaker: Epiroc India	
11:55 AM	Hilti Associate sponsor presentation	Subject: Controlled Demolition using advanced Diamond technology	Speakers: Mr. Sheikh Kaamil, Hilti India Pvt. Ltd Dr. Martin Goedickmeier, Hilti Liechtenstein
12:05 PM	Case Story Subject:	Making cross passages in Mumbai Metro Line 3	Speaker: Mr. Sunilkumar Vishwakarma, Head Planning, CEC-ITD Cem TPL JV Company
12:13 PM	Brokk, Associate sponsor presentations	Subject: Safe and efficient demolition using remote controlled demolition robots	Speaker: Mr. Joakim Furtenback
12:21 PM	Aquajet System, Associate sponsor pres.	Hydrodemolition, the superior method	Speaker: Mr. Bjarne Axelsson
12:29 PM	Sponsor Presentations	Vacant	
12:39 PM	Indian Projects Case study #1:	Dismantling of MG Sethu Bridge Edifice Engineering	Speaker: Mr Uttkarsh Mehta, partner Edifice Engineering India
12:49 PM	Indian Projects Case study #2	To be decided	
12:59 PM	Indian Projects Case study #3	To be decided	
01:09 PM	Press Conference with Indian Press: International speakers, National speakers to be part of this		
01:40 PM	Lunch		
02:30 PM	European Demolition Association: Speaker: To be decided		
02:45 PM	International Association of Concrete Sawing & Drilling Contractors: Speaker: Mr. Michael Findeis, President		
03:00 PM	Presentation of case story: Nuclear decommissioning. Speaker: Mr. Youssef Hallak – LT Diamond Drilling		
03:20 PM	Presentation of case story: Recycling C&D waste, C-FARM Speaker: Dr.Vimal Kumar		
03:30 PM	Exhibition Networking		
04:00 PM	Tea will be served		
04:30 PM	Panel discussion Exhibition networking will continue		
05:00 PM	Break. IDA committee meeting will be conducted separately.		
07:00 PM	Entertainment Official launch of IDA Demolition Association		
08:00 PM	Cocktail and Networking with Music		
09:00 PM	Gala Dinner		



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Electric-powered equipment was the talk of the Bauma show in Germany, driven in large part by Europe's stricter environmental regulations. Though diesel's dominance in the Americas isn't diminishing anytime soon, manufacturers are nevertheless gearing up for a world where fossil fuels need not be the go-to option, at least in the realm of smaller machines. Here's a look at some recent additions to the mini- and compact excavator market that are designed to enhance productivity, regardless of power source.

## ECR25 excavator leads Volvo's new range of electric compact machines

Volvo Construction Equipment unveiled its first commercial zero-emissions electric compact excavator at Bauma in Munich.

The first to be shown from a new electric range of Volvo branded compact equipment, the ECR 25 delivers zero exhaust emissions, significantly lower noise levels, reduced energy costs, improved efficiency, and less maintenance requirements, compared to their conventional counterparts. The ECR25 is fitted with lithium-ion batteries and one electric motor which powers the hydraulics in order to move the machine and the attachment. The machine's batteries store enough electric energy to power the ECR25 for eight hours in its most common applications, such as utility work. An onboard charger enables overnight charging via a regular household plug socket. A fast charging option, requiring more powerful grid access, will also be available. Beginning in mid-2020, Volvo CE will launch its range of electric compact excavators (EC15 to EC27) as well as a series of electric wheel loaders (L20 to L28), ending new diesel engine-based development of these models.



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

## Kubota KX033-4 with extendable dipper arm

The KX033-4 is part of Kubota's popular KX Series and sits in the three-ton class yet boasts the lifting capacity of a larger machine. Ideal for those hard to reach areas, the KX033-4's optional extendable dipper arm can be quickly and easily extended up to 31 in (787 mm), boosting productivity as well as efficiency. Its impressive capabilities include a digging depth of 12.2 ft (3.7 m) and a digging reach of 18.25 ft (5.5 m). The KX033-4 is powered by Kubota's direct injection diesel engine with auto shift and idle features. Operators will enjoy the easy-open front glass windows, deluxe suspension seat, cup holder, wrist rest and air conditioning. A large, easy-to-read digital panel is user friendly with simple settings and push button operations.

## Also from Kubota, U27-4 tight tail swing excavator

Kubota's U27-4 features adjustable auxiliary flow hydraulics, an auxiliary diverter valve, two-speed automatic downshift travel, as well as best-in-class reach and dig depth. The powerful and well-balanced arm and bucket design allows the operator to dig faster, deeper, and more efficiently even in the toughest conditions. Engineered to prioritize productivity, the U27-4 boasts a working range (including reach and digging depth) that are best-in-class and a bucket digging force of 7,014 lb (3,181.5 kg). Operators will enjoy a large, spacious cab with wider entrance, greater leg room, more flow space and a luxurious interior as well as a new user-friendly front meter panel. An enclosed cab

option with heat is also available for the new U27-4.

## Next-generation 1t-2t CAT mini-excavators designed for optimum customer value

Four new models in the Cat® mini hydraulic excavator lineup, engineered and manufactured by Caterpillar, are designed to provide users the best performance, versatility, safety, operator convenience—and affordability—in the smallest possible packages for 1t to 2t class machines. This customer-centered approach to engineering results in the new models incorporating industry-first standard features, such as joystick steering (Stick Steer) and a tilt-up canopy or cab, as well as new options, including air conditioning and expandable undercarriages across the range. Minimum operating weights (approximate) for the new models range from 3,500 to 4,500 lb (1,575 to 2,045 kg), with weights increasing to as much as 4,900 lb (2,200 kg), depending on specific machine configuration. Dig depths are 7.7 ft or 7.75 in (2.34 or 2.37 m), depending on the model. An available long stick increases depth by 8 in (203 mm). Rubber track undercarriages are standard, with steel tracks available for all models.

All the new models use the Cat C1.1 engine, a three-cylinder diesel rated at 19.2 net hp (14.3 kW), while meeting Tier 4 Final/Stage V emissions regulations. The C1.1 features a power-dense design and delivers consistent performance through a wide speed range. Fuel efficiency is enhanced with engine idle control and automatic shutdown systems.

The new Next Generation mini excavators use an efficient, fuel saving, load-sensing hydraulic system with an electronically controlled variable displacement piston pump capable of oil flows to 17.4 gal/min (66 liter/min). Flow rates, coupled with high main-relief pressures, provide the new models with the hydraulic capacity to generate high digging and lifting forces, as well as to handle powered attachments. For added versatility,



# SOURCES



the standard auxiliary hydraulic system (complete with quick disconnect lines) provides one way, two way, and continuous flow. Manual couplers are available, and the new models are equipped with a thumb-ready package and a certified lifting eye. Front shovel operation, a capability that lends an extra measure of precision when digging around utilities,

can be accomplished with both pin-on and coupler-mounted buckets.

Routine maintenance check points are accessible at ground level through the side doors, and the battery is maintenance-free. The exclusive tilt-up cab allows access to major hydraulic components with a simple process that can be completed in under five minutes.

## Technical specifications

Model	301.5	301.7CR	301.8	302CR
Min. w. (lb/kg)	3,74/1,57	3,93/1,78	4,40/1,83	4,508/2,045
Max w. (lb/kg)	3,88/1,76	4,04/1,83	4,46/2,02	4,85/2,200
Tail swing	Standard	Compact	Standard	Compact
Operator station	Canopy	Canopy	Cano. Cab	Cano. Cab
Dig depth std (ft/mm)	7.7/2,34	7.7/2,34	7.75/2,37	7.75/2,37
Dig depth long (ft/mm)	8.35/2,54	8.35/2,54	8.4/2,57	8.4/2,57

## Doosan Infracore North America expands its mini excavator offering

Doosan Infracore North America, LLC, is bolstering its mini excavator lineup with the addition of three new Tier 4-compliant models in the 3.5t, 4t, and 5t classes. Doosan DX35-5, DX42-5, and DX50-5 mini excavators will each be available with an enclosed cab, including heat and air conditioning, or an open canopy configuration. Both configurations allow for excellent all-around visibility, especially to the excavator's attachment.

The DX35-5 is now the smallest Doosan mini excavator available. This 3t class excavator is designed with zero tail swing, which makes it an ideal machine for operating on congested jobsites and working next to other objects. A dual flange track roller system gives the machine greater over-the-side digging capacity, exceptional slewing and a smooth, comfortable ride. A roomy cab adds to operator comfort and tall, wide windows provide the operator with excellent visibility for enhanced productivity and safety. The conventional tail swing DX42-5 has strong bucket breakout force, dig depth and reach in a highly maneuverable excavator in the 4t to 5t class. Its relatively narrow width for a machine in its class provides operators greater ability to navigate through doorways, gates and other obstacles.

Finally, the 4t-5t class DX50-5 enables customers to operate in tight spaces with superior digging performance. It is a minimal tail swing excavator with less than one inch of tail overhang.

Customers can choose between a standard arm or a long-arm

option. The long-arm option gives operators more dig depth and reach and reduces the amount of machine repositioning for enhanced productivity. A blade comes standard with all three new models, and an angle blade is available as a factory option. An angle blade makes it easier for mini excavator operators to perform backfill tasks





more efficiently, as well as create slopes and swales. All three new Doosan mini excavators can be equipped with a quick coupler, bucket and thumb attachment package. Quick couplers allow mini excavator operators to easily change attachments to match the trenching task to the desired bucket width, minimizing over-digging. A thumb is a popular attachment to use with a bucket to effectively grab, lift and place items, such as debris in site preparation or hardscape materials for a landscaping project. Operators have access to up to 20 gal/min (75.7 liter/min) of auxiliary hydraulic flow, depending on the model, to provide power to other attachments, such as augers, breakers and plate compactors.

**Technical specifications**

Model	DX35-5	DX 42-5	DX 50-5
Engine (hp/kW)	33.5/25	42.7/31.8	49.8/37.1
Operating weight (lb/kg)	7,909/3,587	9,246/4,194	10,677/4,843
Buck. breakout force (lbf/kN)	6,968/30.9	9,183/40.8	8,977/39.9
Max. dig depth, std. (ft/m)	10.25/3.1	10.5/3.2	11.65/3.55
Width (in/mm)	69/1,752	69/1,752	77.2/1,961
Tail swing overhang (in/mm)	0	17/432	.6/15.24

**Yanmar's ViO23.6, small and versatile**

Yanmar's new ViO23-6 is a 2.3t mini-excavator designed to work in confined spaces. Its rotation radius is just 4.5 ft (1.38 m). The machine has zero offset, the counterweights do not protrude even when the chassis is closed, and the front parts of the turrets do not extend beyond the width of the tracks. The standard ViO23-6 is equipped with a variable-track chassis that can extend from 4.5 ft (1.38 m) 5 ft (1,550 mm) to give it good stability and lifting capacity. An additional counterweight allows it to operate with heavier attachments. This compactness of the lower chassis and its transport weight of 5,214 lb (2,365 kg)—including cabin, standard counterweights, and standard arm—mean that the ViO23-6 can be transported with its accessories on a trailer. The ViO23-6 is powered by a Yanmar 3TNV76-PBV1 engine which comes with an auto deceleration system and eco-mode as standard. It also has a ViPPS (ViO Progressive 3-Pump System) hydraulic system complimented by a distributor to optimize the performance of all hydraulic operations simultaneously. In terms of performance, this mini-excavator has a digging depth of 8 ft (2.45 m), with a standard arm, an excavation force of 39,342 lbf (17.5 kN) with a bucket, and 2,945 lbf (13.1 kN) with a standard arm.



**Hyundai upgrades R35Z-9A compact excavator**

Hyundai Construction Equipment Americas recently announced a variety of improvements to its 3-1/2-ton class Hyundai R35Z-9A compact excavator, designed to provide users a competitive edge in performance, convenience, serviceability and safety. One of seven 9A series models, the Hyundai R35Z-9A compact excavator was introduced to the market in 2015. It features a zero-tail swing design for optimum maneuverability in confined work spaces. New standard features include a Werk Brau-compatible thumb bracket, a diverter valve for easy switching between a thumb or attachment, proportional control levers with two-way piping, pin-grabber style dual-locking quick coupler and O/C piping, enhanced bucket design with lifting-eye and two-piece tooth design for easy replacement, increased curve profile on dozer blade for better grade and cutting ability, an easily replaceable cutting edge to the dozer blade, a wider opening engine compartment, and a durable centered boom LED work light for improved jobsite illumination. A new optional feature is the 4-way angle dozer blade. The R35Z-9A model features a



fuel efficient Yanmar engine producing 23.7 hp (17.7 kW), and a large cab with powerful air conditioning, suspension seat and fold-up travel pedals for enhanced floor space. The machine's boom swing capability allows the operator to offset the boom 75 degrees to the left and 50 degrees to the right, facilitating close work alongside foundations and other structures, especially in congested areas. Maximum digging depth is 10.25 ft (3,135 mm). Bucket breakout force is 6,900 lbf (3,130 kgf). Standard bucket capacity is .14 yd3 (0.11 m3). Hyundai protects its customers' investment in the R35Z-9A (and other Hyundai models) with a best-in-class, hassle free 3-year/3,000-hour warranty, and a 5-year/10,000-hour structural guarantee.

**Hitachi's new ZX17U-6 and ZX19U6 minis**

The new ZX17U-6 and ZX19U-6 mini-excavators from Hitachi are ideal for utilities, foundation work, and indoor demolition or construction projects—wherever space is limited. Lightweight and compact, they can be easily transported from one job site to another, and offer high levels of productivity, comfort and durability. Thanks to an efficient hydraulic system, they are capable of high levels of productivity and fuel efficiency. Like previous Zaxis models, they have a quick cycle time and high workload. The versatility of the new machines is highlighted by the expandable crawler tracks. They can be retracted or widened from 38.5 in (980 mm) to 50.4 in (1,280mm), when greater stability is needed. Operator comfort was a key factor in the design of the cab. It features a wide adjustable sliding suspension seat, which is surrounded by user-friendly controls within easy reach. Hydraulic pilot levers are used to operate the front, boom swing, travel and blade. Low noise levels, even with the canopy design, allow operators to work more comfortably, and visibility of the job site is enhanced by the three-post canopy design. New LED lights on the boom have a longer lifetime than halogen lights for efficient energy use.

**Technical specifications**

Model	ZX17U-6	ZX19U-6
Engine rated power (hp/kW)	14.2/10.6	14.2/10.6
Operating weight (lb/kg)	3,880/1,760	4,145/1,880
Max. digging depth (ft/m)	6.9/2.1	7.9/2.4
Bucket digging force (lbf/kN)	3,597/16	3,597/16

**Bobcat's 1t electric mini-excavator**

Bobcat has also entered the electric equipment market with the E10e battery-powered, zero tail swing (ZTS) 1t mini-excavator. Combining zero emissions, low noise and a width of just 30 in (71 cm), the E10e easily pass through standard doors and in and out of lifts, making it ideal for indoor applications such as demolition and basement construction. Developed at the Bobcat EMEA Innovation Center, in conjunction with electric vehicle suppliers, the E10e is based on the design of the very successful diesel powered E10 1t mini-excavator. (The E10 is now called the E10z to reflect that it is a ZTS mini-excavator). The new E10e has the same ZTS profile and identical external dimensions as the standard E10/ E10z machine and offers equal or better performance. As the new machine is designed to be used in demanding indoor applications such as breaker work in demolition, it is equipped with auxiliary lines and an efficient oil cooler system for continuous hydraulic breaker operation. Cooling system capacity has been increased to meet extended demolition application requirements. The E10e has a state-of-the-art lithium-ion, maintenance-free battery pack with an advanced management system, designed to fit within the standard machine envelope to maintain the machine's ZTS profile. Based on customer studies, Bobcat has optimized the battery pack to provide capacity to match typical work patterns. Using an external 400V supercharger functionality, the E10e when used with normal work breaks, can operate throughout a full working day and can be recharged to 80% of the capacity in less than two hours. The battery can also be recharged overnight by using the on-board charger.

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# The Perfect Profile

Correct surface preparation is the key to obtaining beautiful flooring that lasts for decades. Claude Besson, from National Flooring Equipment, explains the best techniques for concrete profiling.

Concrete surface profile (CSP) is a standardized measure for the roughness of a surface that has been established by the International Concrete Repair Institute (ICRI). CSP is expressed in a range of 1 to 9, with the latter representing the roughest finish possible. There are several methods to obtain the ideal CSP, which can be grouped in two broad categories—mechanical and chemical.

Before starting any concrete profiling, scraping off old coatings will save time and allow the operator to limit dust and broken parts. After this step, one of the most commonly used techniques for mechanical concrete profiling is abrasion using diamond grinding to erode the surface providing progressive disintegration of the concrete, resulting in a flat and relatively uniform surface.

Contractors can also use differences in heat to profile a surface, a method known as expansive pressure. Here, the surface is heated quickly using flame blasting, high-pressure water jetting, or steam blasting, causing the top to peel off.

Another option is pulverization, with small particles traveling at high speed colliding against the surface. This method causes minimal damage to the surface, being

undertaken most commonly by abrasive blasting, sandblasting, or shot blasting. For very rough profiles, contractors can use the impact technique, which is usually done with a bush hammer or scarifier. In this method, the substrate crumbles as a result of repeated impact by a hardened point, which causes the aggregate and cement paste to crack.

Chemical reactions are used when the job site cannot accommodate large machinery and the substrate is so compromised that handheld devices are not powerful enough. Although not considered environmentally friendly, chemical treatments might be the only solution. The method involves applying a solution of water and muriatic or citric acid to the concrete with a low-pressure sprayer or a plastic sprinkling, which can remove the superficial cement paste and expose the fine aggregate. Acid treatments produce a very light profile similar to fine sandpaper. As light profiling is suited to thin coatings, this method is ideal for micro toppings that are less than 4 in (10 mm) thick.

Because chemical treatments can release toxic materials, operators should wear personal protective equipment such as goggles. Contact between machinery and acid should be avoided as well to prevent corrosion. Operators should also be aware of local regulations governing safe disposal of acid and contaminated water.

## Yanmar Acquires ASV Holdings

Yanmar Group announces the completion of its acquisition of compact equipment manufacturer ASV Holdings Inc., a designer and manufacturer of renowned compact tracked loaders and skid-steer loaders. ASV's independent dealer network throughout North America, Australia, and New Zealand will join Yanmar's existing global construction equipment operations. The company also sells OEM equipment and aftermarket parts, and owns and operates a 238,000-sq ft production facility in Grand Rapids, MN.

"We expect ASV to realize significant, channel and product synergies after joining the Yanmar Group," stated Mr. Giuliano Parodi, Executive Officer of Yanmar Holdings. "In addition, the ASV Grand Rapids facility will continue as a center of excellence for compact tracked loaders and skid steer loaders, while benefiting from the global capacity and resources of the Yanmar Group."

The acquisition strengthens the Yan-



mar's range of compact equipment products allowing it to offer full dig, load, carry solutions on the worksite and contribute to Yanmar's prospects for growth in North America and globally.

## New President and CEO at Astec Industries, Inc.

Astec Industries, Inc., announces the appointment of Barry Ruffalo as its President and Chief Executive Officer. Ruffalo comes to Astec from Valmont Industries, a publicly-traded diversified global producer of highly-engineered fabricated metal products. He served in Group President roles since 2016, following a stint as Valmont's Executive Vice President, Operational Excellence. Ruffalo has also worked for Lindsay Corporation, a global leader in proprietary water management and road infrastructure products and services.

"After a comprehensive search that included a number of highly qualified candidates, we are excited to hire Barry," said Bill Gehl, Chairman of Astec. "He is a leader that has driven change, understands infrastructure and will add tremendous value."

"I am excited to join Astec as its CEO and a member of the Board of Directors," said Ruffalo. "I look forward to moving forward with measures to make Astec more profitable and agile while building on the strength of its world-class products."

With Ruffalo's appointment, Richard Dorris, Interim Chief Executive Officer, has resumed his role as the company's Chief Operating Officer.



## Blastrac Consolidates Brands

Blastrac Global has announced the consolidation of its of Blastrac, Diamatic, and Cyclone Technology business units, combining assets in marketing, training, engineering, and sales support functions to expand our top-class customer support and education. Customers will continue to see the same Red Diamatic and Blue Blastrac products that have been industry leaders for more 30 years, along with Cyclone technology high-pressure water cleaning systems. All product lines will be manufactured at the company's Oklahoma City facility, and sold through distribution or at one of 12 locations

in the US and Canada. These locations serve as repair/rental and sales offices.

As always, Blastrac Global's products are manufactured to the highest quality specifications and meet UL, ULCSA, and NEC safety standards for North America. The company plans on adding new services and support functions to customers in the coming months.



## Epiroc's Essen Plant Certified to ISO 50001

Epiroc's Essen, Germany, manufacturing facility has been certified to the stringent ISO 50001 Energy Management System. The strictest of all the ISO standards, ISO 50001 certification requires documented yearly reductions in electricity and gas consumption. The Essen factory, which makes medium and heavy hydraulic breaker attachments for excavators, has implemented a number of effective initiatives to offset its energy-intensive production processes. The heat treatment process has been optimized to avoid wasting energy, with ovens only being operated when they are filled to capacity. Optimum quantities of parts and materials are used at all process steps. A new powder coating that works with lower temperatures is currently being tested. LEDs are used wherever possible as well. There are clear benefits for both the environment and the Essen plant. During 2017-2018, the plant achieved a 9% reduction in electricity and gas consumption, while at the same time increasing its output. Lower energy consumption shrinks the plant's environmental impact, and helps reduce operating costs. ISO 50001 certification makes it easier for Epiroc to obtain external financial support for environmentally driven investments.

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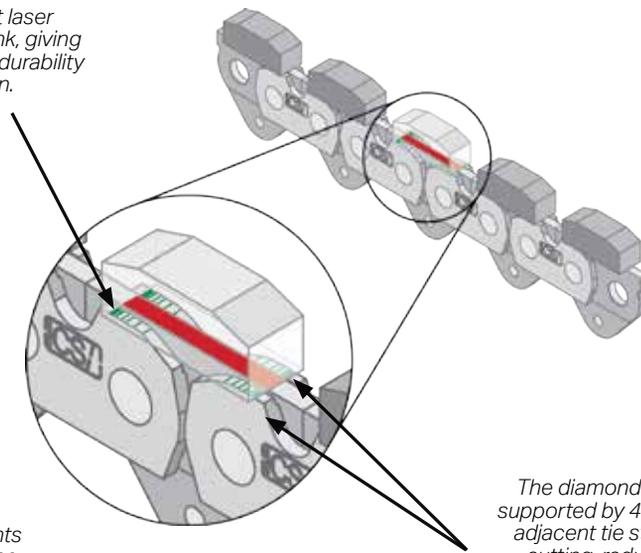


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