

# PROFESSIONAL p d d NORTH AMERICA AMERICA

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Your Gateway to North, Central and South America

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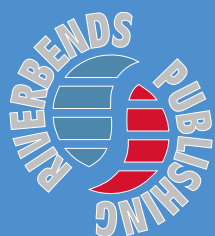
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# Do Ask...and Please Do Tell

"How are you doing?"

Too often, we ask this question of without really expecting much of answer. Among friends and colleagues, the response might be along the lines of "OK" or "same old same old." Absent big news in their lives, we may not even care for a detailed response. Maybe we should.

Mental health has been in the spotlight over the past several months, in part a result of the pandemic's extraordinarily disruptive effects on lives and livelihoods. We've also seen several high-profile athletes step back from competition, citing the pressures of their intense, micro-scrutinized personal and professional worlds.

This discussion is long overdue. For too long, mental health issues have been something of a stigma, sometimes mistakenly associated with personal shortcomings. Whether these mental and emotional challenges stem from a temporary accumulation of stressors, or are rooted in more complex causes, our instinct is to ignore them and just power through. We have to; there are bills to pay, a job to do, a family to support.

Such attitudes are potentially dangerous, as they can perpetuate a cycle of that becomes harder and harder to break. (I saw that firsthand with my father, a consummate "type A" personality whose obsession with getting things done contributed to ill health and an early demise.) A so-called "mental health" day or after-work beer just won't do, because the worries and challenges are still there the next morning. Coping agents such as alcohol and drugs often create new problems that increasingly outweigh whatever short-term relief they provide, even as the grip of addiction tightens.

While no one is immune to mental health challenges, some fields are particularly susceptible to them. A 2020 report from the Centers for Disease Control found that construction and extraction industries have an alarmingly

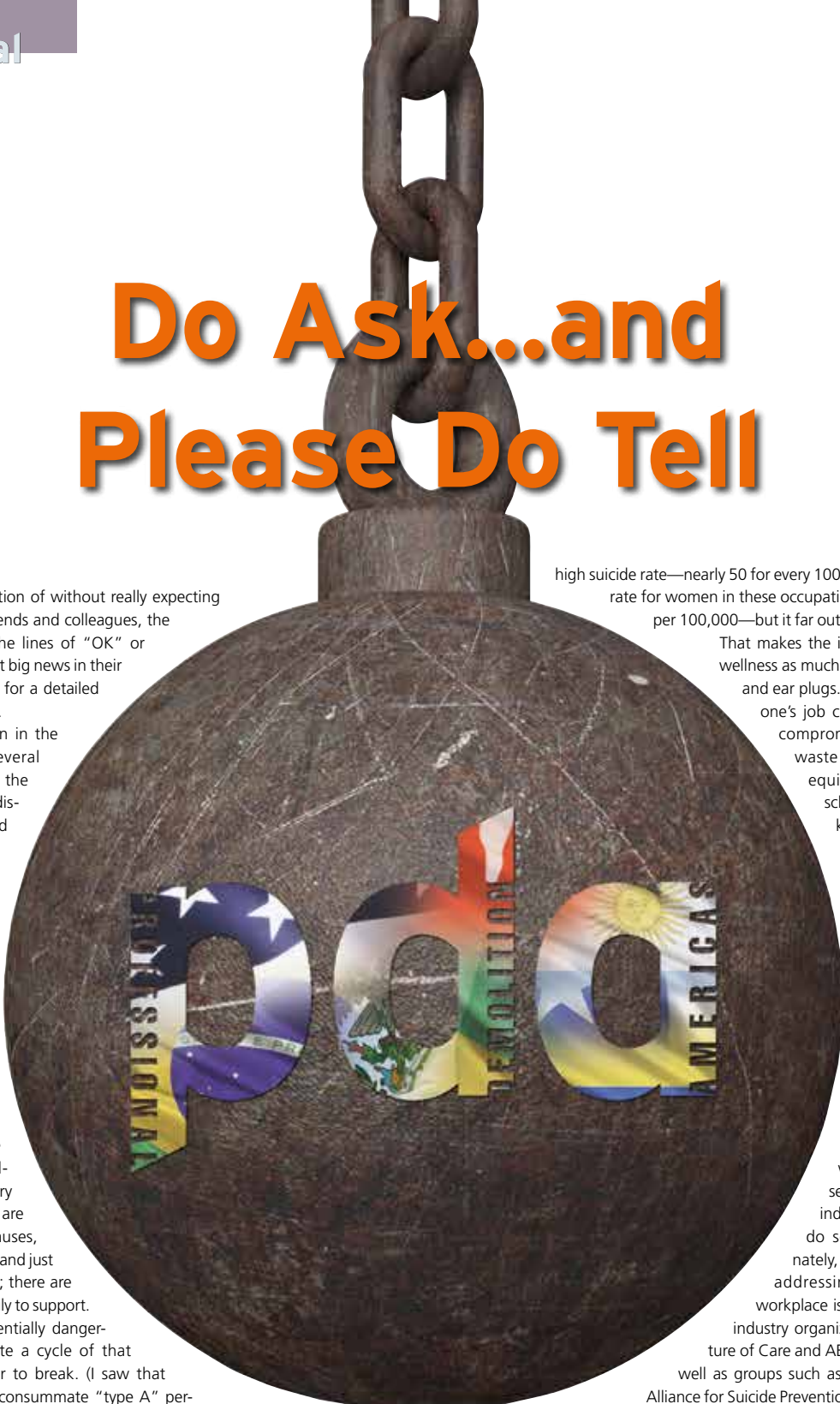
high suicide rate—nearly 50 for every 100,000 men in those jobs. The rate for women in these occupations may seem lower—25.5 per 100,000—but it far outpaces any other type of job.

That makes the issue of mental health and wellness as much as safety issue as hard hats and ear plugs. Not being fully engaged in one's job can put co-workers at risk, compromise the quality of work, waste materials and accelerate equipment wear, and disrupt schedules that as most of us know, have less and less room for error. Then, of course, there's the employee's wellness, a condition that can not and should not be dismissed by assuming he or she will "get over it."

To be sure, mental health remains a difficult topic to pursue when one denies anything is wrong. But actions and behaviors typically speak louder than words. And if something seems amiss, we owe it to the individual—and ourselves—to do something to help. Fortunately, a wealth of guidance for addressing mental health in the workplace is available from established industry organizations such as AGC's Culture of Care and ABC's Total Human Health, as well as groups such as the Construction Industry Alliance for Suicide Prevention (CIASP) and Construction Working Minds.

Even something simple as making the effort to ask "how are you doing" can make a difference in helping someone deal with a mental health issue — as long as we also make the effort to truly listen to the answer.

**Jim Parsons, Senior Editor**  
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**EXHIBITS: JANUARY 18-20, 2022**  
**EDUCATION: JANUARY 17-20**  
**LAS VEGAS CONVENTION CENTER**



PDa Magazine is pleased to present regular updates from the US National Demolition Association. This column comes from NDA Executive Director Jeff Lambert.

## NDA Teams Up with OSHA on Safety

I am happy to announce that the National Demolition Association has formalized its Alliance with the U.S. Occupational Safety and Health Administration. The alliance between the two organizations solidifies our ongoing partnership to align training, best practices, procedures and continued education within the demolition industry.

The formal alliance will allow NDA to:

- Expand existing relationships between NDA and OSHA's regional and area offices to address industry health and safety issues, including the training of agency staff and providing technical expertise when appropriate.
- Develop and disseminate materials and effective training aids that align with current regulatory information, interpretations, and enforcement initiatives.
- Develop and review demolition best practices.

This is a great win for the Association and demolition industry. It provides NDA the platform to share our best practices with OSHA and in turn with the general contractors, owners, and other members of the industry.

This year, the NDA Industry Committee is working on a Power Plant Guidance Document with a target to publish in cooperation with OSHA by the end of the year. We are also hard at work on an Implosion Guidance Document, with the first draft scheduled for release in early 2022. Additionally, our Safety Committee is in the process of finalizing editing of the Pre-Demolition-Engineering Survey and will have an updated document for members at the end of the year.

We are excited about NDA Convention & Expo 2022 in San Diego, Calif., February 26 - March 1, 2022. We have selected a fantastic location for the evening party, Live DEMO, and the host hotel—Hilton San Diego Bayfront, one of the best properties in the city. Registration will open in October and we hope to see you there.

Last year in response to COVID-19, we changed our platform from in-person to virtual training for the Foundations of Demolition Management courses. We trained more than 100 people between the recent project management course, job cost tracking course, and the Superintendent Boot Camp. We also have expanded the availability of the classes by offering the risk management course in conjunction with the World Demolition Summit, October 22nd in Chicago. If you plan on attending, we encourage you to register for the Foundation of Demolition Risk Management.

Here's the rest of NDA's education schedule FY 2022:

- Foundations of Demolition Estimating Course: Fall 2021 (TBD)
- Foundations of Demolition Job Cost Tracking Course: April 29, 2022 in Atlanta, Ga.
- Foundations of Demolition Project Management Course: April 27-28, 2022 in Atlanta, Ga.
- Foundations of Demolition Estimating Course (virtual): Spring 2022 (TBD)

Also in education, we are in the process of developing the industry's first certification. NDA has put together a certification board consisting of owners, general contractors and NDA members to help determine best practices and metrics. We think a rising tide offered by certification will lift all boats. It will help contractors stay safe, but it will also help the owners and the general contractors have a metric to say, "Here's the industry standard." We plan to offer the first certification test in spring of 2022. With all that is going on at NDA, if you're not a member you should be. Contact me directly at [jlambert@demolitionassociation.com](mailto:jlambert@demolitionassociation.com) to learn more.

**Jeff Lambert**  
Executive Director

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

## FTC Adopts "Right to Repair" Policy

On July 21, the U.S. Federal Trade Commission unanimously adopted a policy statement on repair restrictions imposed by manufacturers and sellers. According to information from the Associated Equipment Dealers, the FTC will use its current statutory authority to prioritize investigations into unlawful repair restrictions by:

- Considering filing for injunctive relief under the Magnuson-Moss Warranty Act and monitoring private litigation (importantly, Magnuson-Moss is limited to consumer goods "normally used for personal, family, or household purposes").
- Scrutinizing repair restrictions for violations of antitrust laws, such as the Sherman Act.
- Assessing whether repair restrictions constitute unfair acts or practices as prohibited in Section 5 of the Federal Trade Commission Act.
- Working with state law enforcement and policymakers to ensure compliance and update existing laws and regulations to advance the goal of open repair markets.

AED adds that the FTC is relying on current statutes for possible enforcement as opposed to new rulemaking. While it's unclear how aggressively and when the FTC will implement its new policy, many of these issues will need to be resolved in court after enforcement actions are brought forward.

## Astec Rebrand Unites Subsidiary Companies

Astec Industries, Inc. is launching a new modern look with a rebranding initiative to coincide with its business model. Along with a new logo, color palette, and website, the organization is streamlining its internal structure and operations to improve efficiency and drive growth.

The organization's former brands, including Astec Inc., Astec do Brasil, Astec Australia, BMH Systems, Breaker Technology, Carlson Paving, Con-E-Co, Heatec, KPI-JCI and Astec Mobile Screens, Osborn, Peterson, RexCon, Roadtec, and Telsmith, will no longer operate as separate subsidiary companies and will all take on the ASTEC name. The unification is a significant part of the company's OneASTEC business model including its "Simplify, Focus, and Grow" strategy.

"We made the decision to unify to make it easier for our dealers and customers to do business with us. By coming together as one organization, we can offer greater customer service and drive innovation," said Barry Ruffalo, president and CEO of Astec Industries, Inc. "The rebrand enables us to build our strength together under one common name and purpose. We can better leverage our growth as one team rather than individual brands."

Astec's new website ([www.asteccindustries.com](http://www.asteccindustries.com)) replaces the previous subsidiary websites. Dealers, customers, suppliers and consumers will be able to find information about the company, its product offerings and other resources in one location.

## Scanmaskin Group Appoints New CEO

Scanmaskin Group has appointed Per-Anders Bardh as the company's new CEO. Bardh is an experienced business leader with broad and relevant industrial experience and many years of international commercial experience. He succeeds Paulo Bergstrand, who, with his father Clas-Göran Bergstrand, has led the Scanmaskin group since the 1970s. The Scanmaskin group was established in 1975 in Gothenburg, Sweden. Over the years, the company has evolved to become

one of the market-leading manufacturer of grinding machines, minerals, and tools. The Scanmaskin and Scannineral range includes everything from floor grinders, diamond tools, industrial vacuum cleaners, scarifiers, shot blasters, power trowels, and floor strippers to minerals for seamless flooring.

Scanmaskin products are sold all over the world, with distributor representatives in more than 30 countries.

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



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# Husqvarna Opens Two New Service Centers

Husqvarna Construction has added two service centers to support customers in Knoxville, Tenn., and Philadelphia, Pa., and the surrounding areas. Designed with customer needs in mind, both centers offer service-minded, knowledgeable teams that provide world-class service and support for the full range of Husqvarna diamond tools and other equipment.

The Knoxville Regional Service Center is located at 4139 Appalachian Way, and may be contacted at 865/329-6430.

The Philadelphia Regional Service Center is located at 622 Grant Rd. in Folcroft, Pa., and may be contacted at 610/723-7025.

Business hours for both facilities are 8:00 am – 4:30 pm. Customers may also call Husqvarna’s Technical Services department at 800/365-5040 for help with troubleshooting an issue.

Each service center is staffed with professional service technicians that understand Husqvarna products inside and out. They are trained to repair all types of Husqvarna equipment and patented technology.

(Note: Customers with third-party engine issues should contact the engine manufacturer for service details.)

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



## Event Calendar

### Ecomondo 2021

Oct 26-29, 2021  
Rimini Exhibition Centre  
Rimini, Italy

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

### The Ara Show 2021

Oct 18-20, 2021  
Las Vegas Convention Center,  
Las Vegas, Nevada

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

### Bauma China 2021

November 22-25, 2021  
Shanghai Exhibition Centre  
Shanghai, China

[www.bauma-china.com](http://www.bauma-china.com)

### World of Concrete 2021

January 18-20, 2022  
Las Vegas Convention Center,  
Las Vegas, Nevada

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

### Hillhead 2021

June 21-23, 2022  
Hillhead Quarry  
United Kingdom

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

### ISRI 2022

March 21-24, 2022  
Mandalay Bay, Las Vegas, USA

[www.isri2022.com](http://www.isri2022.com)

### BAUMA 2022

October 24-30, 2022  
Munich Exhibition Center,  
Munich, Germany

[www.bauma.de](http://www.bauma.de)

### DEMCON 2022

November 24-25, 2022  
InfraCity, Bredden,  
Stockholm, Sweden

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

### CONEXPO-CON/AGG

march 14-18, 2023  
Las Vegas Exhibition Center  
Las Vegas, USA

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

### Samoter 2023

March, 2023  
Verona Exhibition Center,  
Verona, Italy

[www.samoter.it](http://www.samoter.it)

### Intermat 2024

April, 2024  
Villepinte, Paris Nord,  
France

[www.intermat.fr](http://www.intermat.fr)

## Swedish Bobcat Dealer Supports Child Cancer Patients

Minutdagen, in cooperation with AjaBajaCancer foundation, has teamed up with Bobcat Sverige AB to auction off a unique Bobcat L28 articulated loader decorated with children's drawings. All proceeds from the auction will go to AjaBajaCancer and the production of Minutdagen (Minuteday) – a summer event for children with cancer.

"We wanted to support AjaBajaCancer because of their outstanding commitment to the children and such a lovely event," says Marcus Andersson, Marketing Manager at Bobcat Sverige AB.

"This year, we decided to make it a bit special by putting an entire machine up for auction and customizing it with cute art made by children. The winner will get a truly one-of-a-kind piece of equipment – made even more exclusive by the fact that you can't even buy this machine yet!"

The Minutdagen event gives children the opportunity to experience something exciting and help the entire family forget their struggles for a day. This year promises an exciting day filled with flying airplanes and helicopters, good food, live music and various other exciting experiences and activities.

"Minutdagen was created because I felt an urge to do something here and now. I wanted to create memories and extend a helping hand to those who need it the most," says Johan Lagerqvist, creator and initiator for Minutdagen. "We had an idea that families struggling with cancer should be granted some time and space to pause, and catch their breath. All families and children deserve to smile, laugh and be happy if only for a minute, which was why the Minutdagen was created."



## Doosan Wins Orders for 221 Machines for Emerging Markets

Doosan Infracore has announced that it has signed contracts to deliver a total of 221 construction machines in countries in Asia, the Middle East, Africa, and Latin America this year. The company has taken an order for a total of 50 mid- to large-sized excavators, including 30 DX340LC and 20 DX480LC models, from a local construction company that won the runway expansion project for Hong Kong International Airport. In Thailand, Doosan Infracore signed a large supply contract for a total of 38 excavators and wheel loaders for a mine development and civil construction company that had previously used products from the company's



competitors. A dairy company in Vietnam also placed an order for 20 mini-excavators.

Orders have continued to be won in the Middle East as well. These include an order for 27 excavators and wheel loaders from a mining company in Oman, with another 35 excavators destined for a large construction company in Qatar. A Turkish equipment rental company has purchased more than 50 Doosan machines, while 10 50-ton excavators are to be shipped to a construction company in Saudi Arabia.

Doosan Infracore continues to win orders in North Africa. The company has signed a contract for 35 excavators and wheel loaders for a Moroccan company that already owns more than 300 Doosan products. A department in the Egyptian government has also purchased 35 wheel loaders for various agricultural projects. Doosan Infracore is securing more large customers across Africa, having received an order for 20 excavators to be used in gold mines from a mining company in Ghana. Elsewhere, Doosan Infracore is actively penetrating the Latin American market. It has received orders for a total of 16 excavators and wheel loaders from construction and rental companies in Colombia.

[www.doosanequipment.eu](http://www.doosanequipment.eu)

## Brokk Hires Midwest Regional Sales Manager

Brokk has named Chad Diacek as its Midwest regional sales manager. Diacek manages sales and support for both Brokk robotic demolition machines and Aquajet hydro-demolition robots to customers throughout Illinois, Iowa, Wisconsin, Minnesota, South Dakota, North Dakota, Nebraska, Kansas, and Missouri.

"Chad has worked in demolition and rental industries for five years and has spent a portion of that time educating customers on the benefits of electric-powered equipment," says Lars Lindgren, president of Brokk Inc. "He understands the benefits and will be an excellent resource for Brokk

customers looking to improve efficiency and safety."

Diacek has worked in equipment sales for five years. He most recently served as a regional sales manager for Hy-Brid Lifts. Before that, he worked for Cratos Equipment, which supplies state-of-the-art, battery-powered demolition equipment, including European mini-loaders and wheelbarrows. He also served as regional sales manager for a major appliance part distributor, developing connections across Illinois, Wisconsin, Minnesota, Indiana, Michigan, and Iowa.

"In my previous role, I frequently found myself on jobsites employing Brokk robots," Diacek says. "I always took it as a positive sign. The equipment I represented was a great accompaniment and if they already had a Brokk, it proved they were interested in innovative equipment solutions that increased efficiency and safety."

Diacek earned a bachelor's degree from the University of Iowa, and lives in Lisle, Illinois.

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



## Sandvik and Steelwrist Team Up for Full Automatic Open-S Tool Adaptors for Rammer Hammers

Sandvik and Steelwrist have entered into a cooperation for full automatic work tool adaptors for Rammer hydraulic hammers. As the global demand for fully automatic coupler systems is rapidly increasing, Sandvik will start offering Steelwrist SQ-type adaptor plates directly from the factory during the third quarter of 2021. The deliveries from Sandvik will be compliant with the global Open-S standard.

The target with the cooperation between the two companies is to increase productivity and reduce downtime for end users as the interface between breaker and adaptor plate can be optimized for performance and compatibility.



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## CSDA Launches New Online Training Platform

CSDA has launched a new online training platform, giving its members and all members of the concrete renovation industry more opportunities to advance their knowledge of diamond tools and technology. The new website features an updated version of the association's classic Cutting Edge training class, now streamlined and featuring even more information for operators, sales managers and anyone who wants to learn more about diamond tools, sawing and drilling techniques and jobsite safety.

"Since our first online training course in 2008, we have had more than 7,000 concrete cutters complete our online training courses through CSDA's online training website," says Executive Director Erin O'Brien. "We continue to review and improve our course offerings and are extremely proud to introduce this new platform and expand our online course catalog. We plan to add more classes over the next few years."

Cutting Edge is geared towards new and less experienced operators who want to learn about the basics of diamond tools, how diamonds cut, the basics of slab sawing, core drilling, wall sawing, hand sawing, jobsite safety best practices, and more. It is a self-paced course, and each module has a quiz to complete to assure competency. Owners and managers can track their employee's progress and sign-up multiple employees to take the course.

The online platform also offers the entire library of CSDA's Toolbox Safety Tips (TSTs) available to purchase in bundles according to your job type or safety topic. There are more than 100 TSTs available, and new topics are added on a regular basis. Classes on GPR Methods & Theory, Estimating, and Silica Safety. More will be added soon.

"My heartfelt thanks to those involved that helped put together this course," says Patrick Harris, CSDA Training Committee Chairman. "This course will give your operators the knowledge of why things happen and could save your company time and money in the long run. Learning is a lifelong process, and anyone in the industry, or anyone who wants to know more about the industry, will benefit from this course."

[www.csda.org/training](http://www.csda.org/training)

## McCloskey Appoints New Sr. Sales Director

McCloskey International is pleased to announce the appointment of Dean Lownds to Senior Sales Director, responsible for the Europe, Middle East, Africa, and Asia-Pacific regions. Lownds joins the McCloskey International team with more 20 years invested in the heavy equipment industry with JCB, most recently as General Manager, UK Dealer Sales. His time spent in Asia as well as the United Arab Emirates developing business across the Middle East have brought a unique understanding of the market and the

customer to the position. His most recent roles have involved growth projects for Africa and supporting some of the largest independent equipment dealers across Europe.

"It's clear that the aggregates processing and recycling sectors present incredible growth opportunities for both independent dealers and customers during the coming years," says Lownds. "McCloskey International as a brand has a superb reputation around the world for its quality, responsiveness, and innovation. Combined with being a member of the Metso Outotec Group, this is a perfect time to realise the opportunity for all. I'm now part of a team that will take McCloskey and our partners to new heights, and the future is incredibly exciting."

In his new role, Lownds will continue the close working relationship McCloskey enjoys with its distribution partners, as well as identify and recruit prospective dealers.

"Dean's experience with the heavy equipment industry globally will allow him easily integrate into and work with our dealer network to keep pace with the rising demand for McCloskey equipment," says John O'Neill, VP, Sales and Marketing, for McCloskey International. "We look forward to continuing and building this momentum alongside contributing in a meaningful way to the business success of our partners and customers."

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



## Oregon Tool Ownership Changes Hands

Oregon Tool, parent company of construction equipment manufacturers ICS and Pentrunder, has been acquired by the Platinum Equity global investment firm. To be completed by the end of 2021, the deal will help the manufacturer continue product innovation and global expansion. The company, which was rebranded earlier this year from Blount International, has been co-owned by investment firms American Securities and P2 Capital since 2016. Oregon Tool CEO Paul Tonnesen will continue to lead the company following the transaction. With more than 3,200 employees, the Portland, Ore.-based company sells its products in more 110 countries under the Oregon, Woods, ICS, Pentrunder, Merit, Carlton and SpeeCo brands.

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# Back To the “

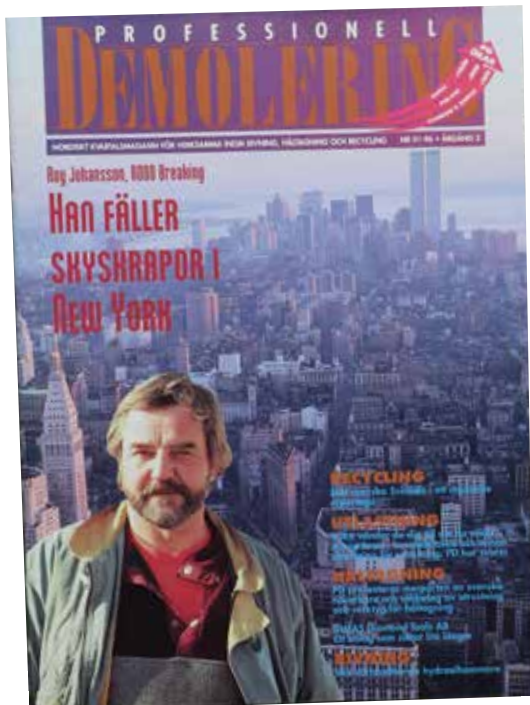
Roy Johansson was one of the first pioneers in robotic demolition to help teach American contractors the technology. After 36 years with Brokk in New York, he returns home to the “old country” of Sweden.

Roy Johansson has made a fantastic journey in the demolition industry since the 1970s when remote controlled demolition robots were a unique innovation. Now, you can say that the circle has closed.

Born in 1951, Roy grew up in the small town of Lilla Edet, north of Gotheburg. He began his career in the dem-



Roy Johansson is back in the “old country” for good after 36 years as a demolition contractor in New York.



Roy on the cover of PDA's Swedish sister publication, *Professional Demolition* in 1996, when the magazine wrote about him for the first time. He's been featured four more times since then.

olition industry in the early 1970s with a local contractor, Besab, and would later open the company's branch office in the city Karlstad. In 1981, he and a colleague started a new company, Rivteknik, which quickly became Sweden's biggest chain of demolition companies.

Roy's foray as a business owner occurred as remote-controlled demolition robots began to be used more frequently with demolition project. Roy fully embraced the technology and over the years became an expert in working with demolition robots from Holmhed Systems (the forerunner of Brokk) and DMX. Holmhed Systems gained market shares at a furious pace and the products were also exported to other countries.

It was Brokk's U.S. market entry in the late 1980s/early 1990s that robotic demolition began to flourish in earnest. The market potential was huge, but few people in the country knew the ins and outs of their operation. Several experienced Swedish operators had already crossed the Atlantic to try their luck in the US demolition industry, and it wouldn't be long before Roy joined them.

## The tunnel as a turning point

Brokk's true U.S. breakthrough arrived in 1983, with the renovation of the Holland Tunnel, which connects lower Manhattan with New Jersey under the Hudson River. Brokk robots would be used to remove water-damaged cladding on walls and ceilings. Roy's colleague, Roland Jarl, decided to travel over and help with the work and shortly afterwards Roy also moved to participate in the work. The year was 1984 and Roy was 33 years old.

"There was basically as much work as possible in the tunnels, including in Manhattan and around New York," Roy recalls. "Demolition robots became a bit of a revolution in demolition work."

That meant any plans Roy might have had about returning home would be put on hold. Opportunities with U.S.-based demolition companies in the Northeast eventually led him to Beaver. In 1993, owner Marvin Livson decided to retire and offered his son-in-law Mitch Schumer and Roy the opportunity acquire the company's machinery. In January 1994, they debuted their new company, Robo Breaking Company, Inc. in Port Chester,

# Old Country"



**In 1997 Professional Demolition took a group of Swedish entrepreneurs to the US to visit Robo Breaking and other firms. From left: Hans Wibell from Wirob; Magnus Karlsson and Magnus Bergman from Bergslagens Betongteknik; Robert Hietanen from Wirob; Roy Johansson from Robo Breaking; Jan Hermansson from PD and Jeffrey Billington from Concrete Cutting Company.**

N.Y., just northeast of Manhattan. The share their location with Concrete Cutting Company in Port Chester, and frequently collaborate on projects.

Robo Breaking has since grown to 20 employees and a fleet of 36 Brokk robots, with every kind of attachment imaginable. For a while, Roy's son Roger came over from Sweden to work for his father, and has since put down roots in the U.S.

From the start, Robo Breaking has always had a big backlog, as metropolitan New York City and the surrounding area has no shortage of demolition needs. Their assignments have included bank vaults, skyscraper interiors, subway stations, rail bridges, viaducts, highways, building foundations, wharves and much more have been demolished.

Roy especially remembers the events around 9/11 when two hijacked passenger planes crashed into the Twin Towers skyscrapers in Manhattan. PDA's editor-in-chief Jan Hermansson was in New York at this time and could see up close the devastation when both the skyscrapers fell and nearly 3,000 people died.

"It was a terrible event that shook the whole country



**Roy is enjoying retirement in the small fishing village of Fjällbacka where he is close to his mother, daughter and other family members.**



## En svensk rivnings-entreprenör i New York

**Nordisk utrustning för rivning och hålltagning profilerar sig starkt på världsmarknaden. Men det handlar inte bara om materiella ting. Även svenska rivningsgubbar söker lyckan utomlands. Roy Johansson är en av de svenskar som satsat som rivningsentreprenör i USA.**

Klockan är 07.30 och det är måndag morgon. Utanför hotellat som ligger i hörnet av Lexington Avenue och 46:e gatan är städ-rievorna meterhög. På två slagar har det snöat 70 cm i New York.



Det gäller att hålla tungan rätt i mun och ha koll på rivningsroboten på den smala tunnelbanebroen.

Allt står stilla. Flygplatserna är stängda. Dagen står stilla, bussarna har kört fast. Gatorna är fullkomligt tomma på bilat. Inne oisg med en snöis bara vråker ner, ovan på detta skall även tolv graders kyla och vindar på upp emot orkanstyrka läggas. Katastroftillstånd har utropats i New York och stadsrens många ställgare har sökt sig till provisorisk upptejade härbergen runt om i stan. De som av någon anledning inte tagit sig till dessa har knapit ifösp på de stora varmlufts-utlös som finns runt om i stan.

Det är en krusig känsla, ett förlämsande tillstånd råder i en av världens största städer, som annars pulserar av liv.

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10 • PROFESSIONELL DEMOLITION

med norr om stan till ett litet samhälle kallat Port Chester. Här bor Roy som äger företaget Robo Breaking Company Inc. 53 långt verkar allting ganska amerikanskt, eller hur. Enskt skilfröden är att Roy heter Johansson i efternamn och pratar en dialekt som är en blandning mellan värmländska och göteborgska.

Roy föddes i Lilla Edet 1951. På den tiden han bodde i Sverige arbetade han mestadels med rivning och hålltagning. Först vid företaget BESAB i Göteborg. Efter några år öppnade han en filial till BESAB i Vålberg utanför Karlstad. Året 1981 startade han tillsammans med en kollega företaget Ryt-teknik i Karlstad AB. Vid samma tid började det bli allt vanligare att använda fjärrstyrda rivningsmaskiner för binnig av betongkonstruktioner.

I USA fick fjärrstyrda rivningsrobotar en stor genomslagskraft. Det rörde sig då om främst märket BROKK. Hans Roland Johansson var ytterligare en svensk som på den tiden hade etablerat sig i USA med företaget Demotech. Demotech var lokaliserat i Kalifornien och man arbetade både med rivning samt försäljning av rivningsutrustning.

### BROKKSÅT MED ARBETE

Den verkliga introduktionen av BROKK i USA kom i samband med renoveringen av den s.k. Holland Tunnel som förbinder stadsdelen Manhattan med stadsdelen New Jersey i New York. Detta var öppningen för Røys tidigare kollega Roland Jarl att begä sig till de förlovade länder i väster. Kort därefter flyttade även Roy till USA. Efter det lyckade rivningsarbetet i Holland Tunnel fanns det i princip har mycket arbete som behövdes för BROKK-maskiner i New York. Roy hade inte svårt att hitta jobb. I två år arbetade han som operatör för företaget Beaver. I slutet av 1993 bestämde sig ägaren till företaget Marvin Livson att dra sig tillbaka och erbjöd Roy att tillsammans med Marv:s svärson Mitch köpa företaget utrustning. Näst och godt, i januari 1994 bildades bolaget ROBO Breaking Company Inc.

### QUEENS BOULEVARD

Enligt Roy är det ingen brist på rivningsjobb i New York. Även om konkurrensen är ganska stor finns det tillräckligt med betong så att de räckar till alla entreprenörer. Den vanligaste typen av arbeten är binnig av kanthökar och vägbanor på broar för bil- och tågtrafik. När PD besöker Roy källar han på mörd att renovera en vägbro som löper längs Queens Boulevard, från stadsdelen Queens till Manhattan. Arbetet är jättebort och omfattar binnig av kanthökar och väls-



Roy Johansson från Lilla Edet och tidigare delägare i företaget Ryt-teknik i Karlstad AB, driver numera rivningsföretaget ROBO Breaking utanför New York.

samt pelare. Arbetet är uppdelat i totalt 63 sektioner där varje sektion är 13 meter lång, 4 meter hög och cirka 1 meter tjock. Detta skall sedan multipliceras med två eftersom båda sidorna av broen skall renoveras. Tilläggsvis bör det även en tunnelbanestation ovan mark renoveras samtidigt. Roy ansvarar för stycken BROKK 250 och en 80:a för jobbet försedd med Montabert-hammare. ROBO Breaking Company Inc har idag sju BROKK BM 250 E, en DMX och två BROKK BM 80.

Andra typer av jobb, dock mindre högfrekventa, är rivning av bankväg, obast på Manhattan, rivning eller renovering av skyskrapor. Roy arbetar framförallt i Bronx, Queens, Brooklyn, Manhattan och Harlem.

Det är idag nästan tolv år sedan Roy flyttade till USA och han har ingen tanke på att flytta tillbaka till Sverige även om han ibland längtar till släkt och vänner. Han hävdar dock att det är här att hitta vänner i USA även om amerikanerna i alla relationer försöker att tjäna pengar. "They do anything



Utsikten från arbetsplatsen vid Queens Boulevard är exotisk med Manhattan skyline i bakgrunden.

for money", säger Roy.

Port Chester, där Roy bor, är ett litet idylliskt samhälle endast 30 minuters resa från Manhattan. Här upplever man inte alls samma stress som inne i stan. För drygt sex år sedan flyttade även Røys son Roger till USA. Han arbetar nu med pappa i företaget och är även han ett välkänt namn i entreprenörskretsen i New York.

and the whole world," Roy says. "I remember being in a boat on the Long Island Sound the evening before and that was the last time I saw the two towers standing in the horizon. We worked a lot with the reconstruction in the area around what is today called Ground Zero."

Though eager to help his adopted country rebuild from the tragedy, Roy suffered some work-related injuries during that time, as the polluted air in the subway stations beneath Ground Zero damaged his lungs.

"It eventually became difficult to work with the actual demolition tasks," Roy says, "so in recent years I have instead monitored the work and handled equipment transports.

### Longing for Sweden

Roy has enjoyed his years in the U.S., but the approach of his 70th birthday and the sentimental pull of his homeland had him thinking about finally making that trip back across the Atlantic. After retiring last year and leaving Robo Demolition in Mitch Schumer's capable hands, Roy relocated to Fjällbacka on the Swedish west coast.

Though he may occasionally gaze wistfully out toward the ocean toward his home for 36 years, he's



Roy sometimes misses Long Island sound but sunsets like these on Sweden's west coast remind him that he is truly home.

### The 1996 article about a breathtaking life as a demolition contractor in New York City.

more than happy to home and living just a few miles from where he grew up.

"I still have my mother who is 87 years old and my daughter Ellinor and her family in Gothenburg," Roy says. "I also have siblings nearby. But I also miss my son and grandchildren in the U.S., and that constant pulse of activity in New York that was part of my everyday life for several decades."

Still, nothing can take away Roy's many contributions to the demolition industry, particularly his informal role as an ambassador for Brokk's remote-controlled demolition robots from Brokk. Along with being one of the first entrepreneurs to invest in the technology, he's helped countless colleagues in the U.S. become experts in their own right.

And he has no shortage of admirers. PDa editor-in-chief Jan Hermansson, who has gotten to know Roy well over the years, says "it has been a privilege to have document Roy's professional life in numerous stories over the years.

### Husqvarna Launches Next-Generation Battery Power Cutter

Husqvarna's new K1 power cutter is the first product to be launched on the company's new PACE battery system, a product that fully supports the transition to low-carbon economy the construction industry needs. With K1 PACE customers can expect power and performance equivalent to petrol-powered cutters with all the additional benefits battery powered equipment brings to both operators and the environment. The PACE battery system can be utilized for more machines as the battery-powered family expands. In addition to the power cutters and battery system, diamond blades in 12- and 14-in (300 and 350 mm) have been optimized for battery operation. The machine is also equipped with X-Halt® brake function capable of stopping the rotation of a blade in



a fraction of a second for enhanced safety. Introduced at World of Concrete, K1 PACE offer more than a high-performance battery-powered cutter that offers zero direct emissions. The product also provides expected lower vibrations and smoother cutting, with a low weight and optimal center of gravity help reduce user strain. Additional technical data will be released later this year as K1 PACE is rolled out to different geographic markets

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



**Mattias Holmdahl, Global Product Manager Power Cutters at Husqvarna Construction.**

### Atlas Copco's new Energy Storage Systems Optimize High-Power Applications

The latest energy storage system from Atlas Copco, the ZenergiZe ZBC range offers rated power from 100kVA to 1000kVA and an energy storage capacity of up to 2000kWh to deliver high power with long autonomy. The versatile energy storage system can be used together with a generator to enable smart load management, or serve as the primary source of power when used in the island mode.

In addition, the ZenergiZe can be combined with renewable sources of energy for immediate or later use. It captures the energy from solar panels, for example, and stores it for delivery at

any given time. The intelligent control system manages offer and demand coming from the different energy sources, increasing the efficiency of hybrid solutions that translates into overall cost reductions.

This ZenergiZe can also act as the microgrid "brain," managing the power supply of entire areas. It can store the energy from diverse sources and manage the energy consumption and regulate the load for each of the applications associated with the microgrid using its intelligent control system. Additionally, the ZenergiZe energy storage systems can be synchronized with additional energy storage systems, enabling users to scale their final solution with up to 30 ZBCs working in parallel in any power node.

The compact footprint of the ZenergiZe range is ideal for applications where floor space is limited. The use of high-density lithium-ion batteries means that they are 70-percent smaller and lighter in weight than other battery technologies. Thanks to its compact design, it is very versatile and can be used in rental or construction applications where easy transport is a must, as well as in more stationary applications where space and weight may be a constraint.

[www.atlascopco.com/zenergiZe](http://www.atlascopco.com/zenergiZe)



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# W

## DITEQ Equipment Manager and Mike Orzechowski go to advance

This year's World of Concrete was rather "bumpy," with many attendees opting for fist-bumps instead of handshakes as an added anti-Covid safety measure. But Mike Orzechowski didn't mind a bit. Whether he was answering questions as DITEQ's Engineering Manager of Equipment or discussing industry issues as the newly installed president of the Concrete Sawing and Drilling Association, Orzechowski was simply happy to be back greeting customers and colleagues, and soaking up the prevalent optimism about construction's post-pandemic prospects.

Having been a familiar face at these events for many years, it's somewhat surprising to learn that Orzechowski is a relative newcomer to the industry. But then, Orzechowski himself is a lifelong learner. He earned a Bachelor's degree in Mechanical Engineering from Western Michigan University, and a Bachelor's degree in Physics from Grand Valley State University. He also spent a summer as an exchange student in Krakow, Poland, studying economics as well experiencing the land of his

ancestors. Orzechowski's early career pursuits included automation equipment design, and providing technical support to the U.S. Army's Aberdeen Proving Ground testing facility in Maryland. There, he designed test support equipment for measuring pyroshock (the dynamic structural shock resulting from an explosion or impact), rollover stability, and other factors.

In the late 1990s, Orzechowski brought his engineering expertise to Equipment Development Company (EDCO) in Frederick, Md., spending more than a decade overseeing design, testing, and training on construction equipment primarily focused on the rental market. He knew then that he'd found the perfect match for his skills and interests.

"I have the benefit of seeing equipment from the perspective of an engineer through all aspects of the life cycle," Orzechowski explains. "It begins with identifying the need for a new piece of equipment or modification, taking it through the design and testing phase, then integrating it into production, training customers and

salespeople for field implementation, and, finally, providing the ongoing technical support."

### Learning and leading

In 2008, Orzechowski joined Lenexa, Kansas-based DITEQ in a similar role to help the company expand its product line. He also brought a strong commitment to industry professional associations begun during his EDCO years, when he was an active participant in the Saw Manufacturers Institute (SMI), a technical arm of the Association of Equipment Manufacturers that focuses on diamond tools and equipment for construction.

"AEM/SMI had several joint meetings with CSDA," Orzechowski recalls. "At one of them, I was invited to chair CSDA's Standards and Specifications committee, which I took on in 2004. For several years I was active in both organizations, and eventually dedicated my focus on just CSDA."

Orzechowski's CSDA involvement has included stints as board member, secretary/treasurer, and vice president



# MIKE'S WORLD

ment Engineering  
CSDA President  
vski stays on the  
nce the industry.



**Mike and some of his CSDA colleagues. From the left: Jeff Keeling, Brokk Inc.; CSDA Executive Director Erin O'Brien; Jon Zack, O'Brien International; Douglas Walker, Walker Cutting Services, and Greg Lipscomb, Diamond Products.**

before being elected to the top job this year. He's also a frequent speaker and trainer on topics such as various types of construction equipment, concrete surface preparation and polishing, and safety.

While associations support their respective industries in many ways, Orzechowski says CSDA is particularly well-structured to serve the needs of its members.

"CSDA is primarily a contractor association, with the contractor members and the work they perform as the primary focus," he says. "Because many manufacturers are also actively involved, we can foster a valuable two-way dialogue, with manufacturers gaining a better understanding of the contractors' true needs, and the contractors having a direct voice to the companies that produce their equipment."

He cites development of Specification documents as one of the many ways CSDA has benefitted the industry. The documents clearly define expectations on a typical job to identify aspects that should be included, and those that something that needs to be addressed separately

on the contract and/or scope of work. One example is on the ownership of holes a CSDA contractor creates during a cutting job.

"The CSDA contractor can cover the hole appropriately, but it might be re-used by another trade," Orzechowski says. "The question becomes, is the CSDA contractor able to maintain the covering on a hole used by others after the CSDA contractor is no longer on the job? It is important to clearly define the expectations so responsibility for maintaining the cover on the hole is clear."

CSDA also develops Standards documents to clearly identify benchmark metrics such as blade arbor configurations to ensure accurate purchasing. Best Practices documents and white papers are designed to educate the contractor, specifiers, owners, and others on what is currently the accepted best practices for the industry on performing these specialty tasks.

Orzechowski notes that CSDA has expanded its scope over the years to include new niche areas that directly affect many of its contractor members. One example is

Ground Penetrating Radar (GPR), which becoming more widely used to identify infrastructure systems concealed underground or inside buildings.

"CSDA developed standards and best practice documents, training and certification for using GPR in concrete slabs and walls," Orzechowski says. "All the major GPR manufacturers participated in these documents to make them applicable to the task and not inclusive to specific technology. In fact, the GPR documents have gone as far as standardizing the floor markings on the floor to show embedded building system components."

Orzechowski insists that CSDA is an organization for everyone in the concrete sawing and drilling industry, not simply large contractors with large budgets.

"While it is true large contractors have the resources that allow them to be more involved in the committee meetings and other activities, those efforts go a long way toward benefiting smaller firms as well." For example, big companies are frequently structured by a small team designated as a "truck" so that the actual work performed



**Mike joins his Diteq Colleagues at World of Concrete: Jeff Cox; Billy Tucker; Lance Turman, and Robert Carroll.**

is the same or very similar to that of the small companies. "Truth be told, many of the big companies were once small," Orzechowski adds. "They understand they need help and support to grow."

**An ambitious agenda**

During his two-year term as CSDA president, Orzechowski hopes to continue the fundamental practices that have helped the organization achieve its current status, and promote CSDA to specifiers and general contractors. That includes raising the profile of the CSDA Company Certification Program, a discipline-specific audit that addresses areas such as sound business practices, maintaining proper Insurance levels, regular employee safety training, and proper use of the equipment.

"By promoting certified CSDA companies that have met a threshold of quality and safety expectations, general contractors can confidently subcontract out specialty work without a complicated vetting process and additional training requirements," he says. "We also need to work with IACDS [International Association of Concrete Drillers] to help harmonize specific standards for global application."

Of course, Orzechowski will also be tending to his responsibilities at DITEQ. In addition to product design and development, purchasing, training, and marketing support, he's part of the team helping integrate recently purchased grinder manufacturer Stonekor/Eagle into the organization.

Somehow, he also finds time to serve as a volunteer mentor for Center for Advanced Professional Studies (CAPS) program at Blue Valley School System in Overland Park Kansas.

"We provide high school engineering students with real projects to research and develop unique solutions," Orzechowski says. "Thanks to Zoom, we managed to have active projects during the pandemic shutdowns."

Twenty-three years in the construction industry may make Orzechowski a "newbie" in the eyes of some industry veterans, but there's little doubt he's still witnessed a fair amount of change and evolution.

"If you look at magazine articles and ads from even



**Mike demonstrating Diteq's Eagle brand of floor grinding and polishing machines.**

just a few years ago, you can see significant changes to the equipment and the techniques," he says. "A core drill is still a core drill, but many design improvements have made them more effective higher power-to-weight ratios, and easier maintenance, to name just a few. We are also using flocculants and super-absorbent polymers to help control and dispose of slurry. And, there have been big changes in dust control using the kinetic energy of the disc or blade to maximize the efficiency for dust collection."

That's probably why Orzechowski feels truly "at home" in construction. "There's always something new, and even an incremental change can make a big difference," he says.

**Mike together with the author of this article, Jim Parsons, in the PDA booth at WOC yearlier this year.**



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Aquajet maximizes efficiency in water treatment with the advanced RECO Control System, which allows for fully automated, continuous monitoring of both pH and turbidity, increasing productivity and opening up opportunities for better workforce utilization due to minimal operator oversight. The RECO Control System also provides easily shareable water quality documentation, allowing contractors to demonstrate accountability for operating in increasingly regulated environments.

The RECO is unique to Aquajet's EcoClear and controls major functions of this innovative water treatment solution. The EcoClear is a compact, self-contained system capable of moving as much as 5,283 gallons (20 m3) per hour, through a series of treatment chambers that reduce pH from 13 to 7, and suspended solids from up to 20-40 mg particles/liter.

The RECO Control System employs optical turbidity sensors and pH probes as water moves through the self-contained unit. It provides real-time data such as total suspended solids values and overall flow through the machine. This information is easily viewed via the display screen on the EcoClear. Data can also be shared digitally with project stakeholders through the RECO system. Detailed daily reports offer insight into the cleanliness of the discharged water, including pH levels and the amount of water that was treated, providing proof of compliance to environmental regulations.

With the RECO system, contractors only need to set desired parameters for pH and ppm. After that, the system requires infrequent attention and occasional replacement of carbon dioxide, the agent used to reduce water pH. This frees up crew members to attend to other tasks around the

jobsite, increasing productivity and streamlining labor. If water does not reach specified parameters during initial treatment, the RECO shuts down the EcoClear's feed, preventing dirty water from escaping.

The water then starts to recirculate within the unit until it meets the preset values. Contractors can continue working some distance from the machine, confident no dirty water will escape into the environment. Treated water can also be recirculated through a Power Pack or high-pressure pump system for reuse by the hydrodemolition robot. Using this closed-loop setup, contractors can recycle up to 90% of the Hydrodemolition blast water for significant savings.

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



**Driven by the innovative RECO Control System, Aquajet's EcoClear water treatment system offers on-site, on-demand treatment for safer, more productive Hydrodemolition.**

# New Atlas Copco Solar-Powered Light Tower Improves Sustainability

Atlas Copco Power and Flow has launched a new user-friendly solar-powered LED light tower, the HiLight S2+, which enables users to reduce CO2 emissions by up to six tones compared with traditional technologies. The HiLight S2+ offers a robust alternative to temporary diesel lighting for end users and rental companies operating in infrastructure, construction projects, and mining operations, while allowing sites to increase their sustainability and comply with zero CO2 emission and noise regulations.

The HiLight S2+ features 4x90W LED floodlights to deliver 21,500 ft2 (2,000 m2) light coverage. The light tower is extremely easy to work with and use as there are no external cables or refueling required. Moreover, the system features an external control panel, and the lights have a dimming function to prevent light and energy from being wasted unnecessarily, which further increases autonomy.

Designed for year-round use at temperatures from 23° to 122° F (-5° to 50°C), the new solar light tower provides autonomous operation where solar yield is greater than energy demand. In cases where energy demand is higher than solar yield, the tower can also be charged with Atlas Copco's EnergiZe energy storage systems or any external power grid, achieving a total green and clean solution. Batteries can be recharged with solar energy in eight hours or an external power source in just three hours.

The HiLight S2+ light tower has also been designed with a pop-up canopy for better serviceability. In addition, its minimal maintenance needs help to reduce downtime and operational costs, while allowing a quick return on investment. The tower delivers high efficiency coupled with low service cost, which enables site managers to realize operational cost savings and achieve a quick return on investment.

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# A Tool For Drumming Up the Business

Compact and powerful all-rounders, rotary drum cutters keep winning the hearts and minds of demolition industry players. According to excavator attachment manufacturers, demand for drum cutters has been on the rise for the past few years, current restrictions and challenges notwithstanding. And, as will be evident from this feature, their range of applications is constantly expanding.

A Kemroc attachment in action.

## Antraquip cutters speed up lock expansion project in Northeastern USA

US-based attachment specialist Antraquip recently supplied three of its powerful AQ-5 drum cutters to one of the company's longstanding customers New York. The task involved controlled demolition of a concrete wall within a lock on a critical waterway so that shipping traffic could resume as quickly as possible. Mounted on three Cat 349 excavators positioned on barges, the AQ-5 would grind the concrete back up to a depth of up to 3 ft (1m). The concrete was not a weathered type commonly seen on lock and dam rehabilitation jobs, but instead had



a hardness of 55MPa with steel reinforcement inside.

The project required the machines to operate around the clock, despite brutal weather conditions with temperatures dropping to as low as -30° F (-34° C). As the machines worked their way down, the water level was dropped in order to access the deeper areas of the lock. Despite all these challenges, the entire job was completed in less than a month.

The use of Antraquip drum cutters proved the ideal option for a project like this, as the machines provided the combination of high productivity and precision while eliminating the possibility of overbreaking or microfracturing that could damage the lock walls' integrity. Designed to withstand extreme rock conditions and maximise production output, Antraquip drum cutters are manufactured at the company's newly expanded factory in Hagerstown, Md. Key features include mechanical rotation (standard) or hydraulic rotation (optional), adjustable hydraulic motor displacements, a dust suppression system, and customizable drum options for various applications. Antraquip drum cutters fit carriers ranging in operating weight from 1t up to over 100t.

[www.antraquip.net](http://www.antraquip.net)

### Welcome to the "Rockzone"!

Just outside the German city of Dortmund, excavation firm Graf Rohrleitungs-und Tiefbau GmbH, led by supervisor Frank Schöne, used a Rockwheel G5 Twin unit to cut through 20 ft (6m) of soil and 23 ft (7m) of hard rock in order to relocate an 110kV cable. The original plan involved breaking up the hard rock in the trench using a hydraulic breaker.

To make the trench, Schöne attached the Rockwheel G5 Twin to a 5t Kubota base machine. However, when the team got started, they realized that the Rockwheel was capable of cutting through the 80MPa rock, thus eliminating any need for the breaker. What's more, the removed material made perfect refill gravel once the work had been complete. The contractor started out by digging an 830-ft<sup>2</sup> (77 m<sup>2</sup>) pit, shored with soldier pile walls to prevent soil collapses and landslides. The pit needed to be 43-ft (13m) deep to accommodate a micro tunnel boring machine which would make its way below a major highway. Excavation work proceeded smoothly until the team hit the hard rock, but fortunately the Rockwheel G5 Twin cutter took this in its stride.



"Incredible what this little machine can do," says Schöne, who has a lot of experience with hydraulic cutting units. "The Rockwheel wasn't just useful for the earthworks. I was able to put it straight back to work in four other projects." Those included asphalt cutting, wall demolition, cutting of blast furnace slag to reuse it as a road filling material, and crushing of reinforced concrete.

Having been operating on the global market since 2013, Rokla today offers a range of drum cutters under the brand name 'Rockwheel', which includes 24 models fitting 1t to 125t excavators. In 2019, Rokla took over the crusher and screening bucket specialist Hartl to further expand its product offering. Following the acquisition, Rokla has created an umbrella brand with all product groups - Rockwheel, Rockcrusher and Rockscreeener - now united under the single Rockzone brand.

[www.rock.zone](http://www.rock.zone)

### MB-R500 safeguards holidayers' peace of mind in Croatia

Brodarica is a small cozy village on the Adriatic Sea coast in Croatia. A perfect getaway destination, it is all about tranquility and relaxation. So when a need arose to replace the village's water mains, the area's peace and quiet was in jeopardy. To complicate matters further, the villas and private houses were separated by paths which were just 6ft (2m) wide, with barely any room for machinery to maneuver. Hammering the road surface with a hydraulic breaker proved unfeasible due to the vibrations that it caused and the presence of other pipes.

To save the day, a MB-R500 drum cutter from Italy based attachment specialist MB Crusher was called in. Mounted on a 9t Takeuchi TB-290-2 excavator, the drum cutter easily ground through the hard limestone. The MB-

R500 is the smallest model in the manufacturer's line up, having an operating weight of only 660 lb (300kg) and a drum diameter of 11.8 in (500mm). Like other models in the range, it can be supplied with various accessories. For jobs in enclosed spaces and busy motorways, the use of a drum cover kit is recommended to reduce dust emission and to contain flying debris. If milling to a certain depth is specified, then the cutting depth adjustment kit is the recommended accessory to use.

[www.mbc crusher.com](http://www.mbc crusher.com)

### Kemroc's gentle touch helps renovate 1920s structure

Built back in 1925, the flow control lock at the village of Viereth am Main in Germany became due for renovation in the mid-2010s. When breakdowns became more frequent due to corrosion and wear of the structure's toothed racks, rims, and wheels, a major modernization project was launched in 2014.

To minimize disruption to water transportation and to maintain a degree of control over the river flow, it was decided to renovate the two weir sections one by one to accommodate the new lifting mechanisms. The gated weir's construction featured three 55.7-ft (17m) high pillars built in the 1920s from a relatively fragile, mostly unreinforced concrete. In 1994, a surface layer was removed and replaced with a mixture of sprayed concrete and mortar. The renovation contract specified that the removal of this outer layer had to be carried out as carefully as possible to avoid any damage to the existing concrete structure. That left grinding or high-pressure water jets as the only viable options.

Contractor Johann Bunte Bauunternehmung GmbH & Co. KG decided that a Kemroc KR 120 rotary drum cutter mounted on a 35t excavator would be a perfect tool for the job. "We decided to go with the drum cutter and excavator option," explains site manager Christoph Karsch. "The use of high-pressure water jets would have been considerably more expensive and would have required extensive protection from flying material. In addition, we were able to carry out more work further down at the base of the pier with the drum cutter and progress promised to be quicker."

It took the German contractor 24 days in April 2020 to complete the job. "The drum cutter was perfect in terms of performance, precision and smooth cutting





action,” says Karsch. The cutter met little resistance in the plain concrete. We only saw any significant wear in some lightly reinforced areas and on the granite pillar bases.”

A total of 9,535 ft<sup>3</sup> (270m<sup>3</sup>) of concrete was removed from the two weirs at an average rate of 353 ft<sup>3</sup>(10m<sup>3</sup>) per hour, with pick consumption being within acceptable limits.

[www.kemroc.de](http://www.kemroc.de)

### Simex goes for direct drive to ensure high torque and performance

The TF double drum cutters from Italian trendsetter Simex features direct drive technology that ensures high torque and high performance of the attachments. Hydraulic power is transmitted directly to the drums while the shaft is free from load thanks to the double support bearings for each drum. The direct drive piston motor has no lubrication points and needs no regular maintenance. Hydraulic lines are equipped with a double security filter system, which preserves the excavator and the attachment from contamination, while the mechanical seals on drums protect from external agents, even when the attachment is submerged in water or muddy ground.

A reduced distance between the drums enhances the total working width. The two sides of the frame have a symmetrical shape to prevent rocks and stones from getting stuck between the drums and the frame. Simex TF cutters are suitable for a wide range of applications including profiling of rock and concrete walls, tunnelling, quarrying, demolition, trenching and finishing jobs. Low noise and vibration levels allow for operation in sensitive areas such as urban centers, bridges, or tunnels. The drum cutters are particularly useful in quarrying as on the one hand, they perform selective breaking of rock mass while



ensuring the stability of the pit walls. They also increase profitability by producing crushed material that often does not require any further volumetric reduction.

[www.simex.it](http://www.simex.it)

### Nine model KDC series from Demarec

Demarec’s KDC series of drum cutters consists of nine models fitting 2t to 60t carriers. Driven by high torque motors, the KDC cutters come equipped with robust spur

gearing and gear reduction capability to increase the cutting force. The availability of various drum and pick choices ensures high performances in the harshest environments. A heavy-duty sealing system makes it possible to use the attachments underwater at a depth of up to 82 ft (25m). The KDC series is available as standard with three drum and four pick options.

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





## Terex Launches Revolutionary Dust Suppression System

Terex is proud to introduce Aquamist by Terex, a dust suppression system that is now available across its materials processing brands—EvoQuip, Fuchs, Powerscreen, Terex Ecotec, Terex Finlay, Terex MPS, and Terex Washing Systems. Aquamist by Terex offers an improvement over conventional jets or water-sprays to manage the build-up of dust and better protect workers on jobsites by using a high capacity misting fan that produces finely divided water droplets in the size range 10-150 micron diameter. At this size, they easily combine themselves with dust particles of similar dimensions and precipitate them out of the air and, because water-mists “float” more than a conventional spray, they cover and envelop the dust cloud more effectively.

“It is globally accepted now that air-borne dust that is formed on jobsites can significantly contribute to respiratory illnesses,” explains Paul Kearney, vice president of parts and solutions for Terex Materials Processing. “As increased legislation comes into place globally to mitigate this, more effective control of dust is needed. Our Aquamist system will better support worksite operations and strengthen our commitment to making the workplace a safe and healthy environment.”

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



## AUSA Returns to Trade Fair Scene at World of Concrete

Over a year after the start of the global pandemic, thanks to the positive progress made in some regions, the first large-scale events are starting to be held. One of the first construction industry events to be held was World of Concrete, and AUSA was there with its range of compact dumpers and all-terrain forklifts.

“We were really excited to be back at a big event like World of Concrete,” says Ignasi Moner, CEO of AUSA US Corp. “After an extremely tough year for everyone, being able to return to Las Vegas with our machines and come face to face with our customers and everyone present was exciting.”

AUSA exhibited some of its most popular models, including the D150AHA and D150AHG compact dumpers. Each has a 3,300-lb (1,500kg) payload capacity and



comfortable hydrostatic transmission. Suitable for minor construction work and work in difficult-to-reach areas. In the mid-range category, AUSA’s D350AHG has a 7,700-lb (3,500 kg) payload and a 44-hp (32.8kW) engine. The D1000APG dumper with an enclosed cab and a 22,000-lb (10,000kg) payload.

For contractors interested in forklifts AUSA exhibited the C251H model with a 5,000-lb (2,268kg) payload. A technologically advanced machine with a digital screen displaying all of the real-time information and safety warnings. Suitable for enclosed spaces thanks to its maneuverability and with excellent all-terrain capability.

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

## Superabrasive Introduces SupraShine Pads

SupraShine, the new generation of maintenance pads by Superabrasive, will restore and upgrade any floor, from VCT and epoxy to marble and polished concrete. Available in sizes up to 28 in (711mm) in diameter, the line includes four types of pads—SupraShine Regular, High-Performance, Heavy Duty, and Hybrids—to cover floor care needs ranging from deep cleaning and restoration to daily maintenance.

What’s more, SupraShine pads require no special equipment or chemicals. They can be used with water on auto scrubbers, buffers, and burnishers. The result is sustainable floor maintenance with minimum environmental impact. And best of all, SupraShine’s simple and easy process produces fast results resulting in outstanding cost savings.

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



## Rotar Hydraulic Adapter is OilQuick “CLEAN SYSTEM” Ready



Rotar International has introduced its newly developed fully integrated ROQ quick coupler adapter. The Rotar ROQ fully integrated hydraulic adapters are currently available as ROQ 60, ROQ 70, ROQ 70-55, ROQ 80, and ROQ 90 for the series RCC series two-cylinder concrete cutter, RDC demolition combi-shear, RDP demolition pulverizer and RG demolition and sorting grab as well as for RSS mobile scrap shear. The rotator-head section of these attachments has been completely redesigned and optimized for the integration of the adapter. This means that the adapter can be placed directly on the slewing ring without requiring further assembly. The top-plate with the screw-on threads is completely omitted.

This very compact combination of attachment and adapter offers considerable advantages for the user. Depending on the size of the attachment, it can be up to 7.9 in (200 mm) shorter and 440 lb (200 kg) lighter. This makes a considerable difference due to the more favorable center of gravity of the attachment. This benefit is especially noticeable at high-reach applications, as this design is lighter and closer to the excavator arm’s suspension point than conventional adapters. Rotar dealers and customers can order the attachments complete and ready for use from the factory. Additional work and time to bolt on the adapter plate and install the hose connections are eliminated, saving time and service costs. Due to the fully integrated hydraulic hoses, damage to them during hard demolition work is almost impossible. This increases operational safety and thus reduces operating costs and saves downtime on job sites as well. A service inspection cover allows easy access to all hydraulic components in the upper head section of the attachment.

Time-consuming unscrewing of the adapter is no longer required.

The Rotar ROQ adapter has been fully integrated into the attachment design by Rotar engineers with the support of OilQuick Germany. As an “OilQuick CLEAN SYSTEM Partner,” Rotar has emphasized compatibility with original OilQuick couplers and associated Clean System Partner suitability. Because the ROQ is built with original OilQuick components, owners are assured of receiving the system’s latest advancements to provide full compatibility and the highest possible operational safety, especially with the OilQuick locking control and the OilQuick drop protection features.

In addition, all attachment parts used, such as hoses and screw connections and the original OilQuick hydraulic couplings, are standardized and documented in the spare parts manuals. This makes it very easy and quick to identify a component and replace it if necessary. All these measures aim to reduce maintenance- and operating costs, increase ease of maintenance, and guarantee maximum safety. Rotar also offers original fully integrated adapters for Steelwrist and Lehnhoff Variolock full hydraulic quick couplers. Other sizes and models are available on request.

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



# Jansson

With many large and complicated heavy demolition jobs, Jansson Entreprenad qualifies among Sweden's largest heavy demolition firms. PDA met Jansson during the demolition of the Bilia Volvo car reseller plant in Stockholm in June.

After many years of working close to their home base of Linköping, Sweden, Jansson Entreprenad AB, now works all over the country. They tackle different types of complicated demolition tasks at process industries, real estate and infrastructure facilities.

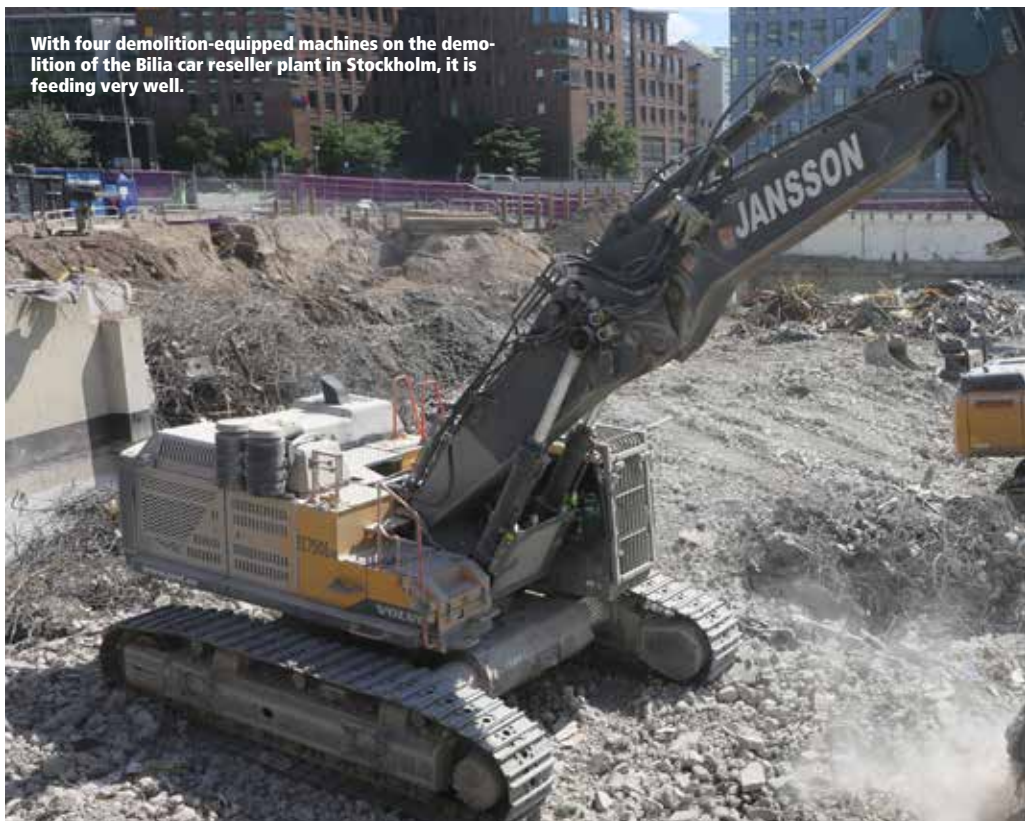
Jansson Entreprenad is so busy that you have to meet them at work. Interviews for this story required visiting the demolition of a car reseller plant in Stockholm called Bilia. It is a facility of a total of nearly 323,000 ft<sup>2</sup> (30,000 m<sup>2</sup>) on up to five floors.

"In total, we will demolish 40,000 solid tons of concrete," says the appropriately surnamed project manager, Hannes Hammar.

The project began in the spring of 2021 with remediation and selective demolition. For a few weeks now, the heavy demolition has been underway and four demolition-equipped excavators at work are equipped with powerful hydraulic demolition tools that chew their way through the concrete TT cassettes the structure is built from. The TT cassettes contain heavily reinforced concrete. Two more excavators are used for excavation.

Johan Persson is one of the demolition operators and drives the company's newly acquired demoli-

With four demolition-equipped machines on the demolition of the Bilia car reseller plant in Stockholm, it is feeding very well.



**Johan Persson, who is responsible for the machine fleet at Jansson, keeps a close eye on the company's machinery and says that they now have around 35 machines weighing up to 104t and around 175 hydraulic demolition tools.**

tion-Volvo EC750EHR excavator. Built for demolition tasks, the Volvo EC750EHR has a reach of 118 ft (36m) and weighs 104 tons.

"We are very happy with the machine," says Persson, who oversees all of Jansson Entreprenad's machines. "It is flexible and safe to work with and has a fantastic capacity. The climate in the cab is also exceptionally good on hot days like today.

The other three demolition machines at work come from Caterpillar, Cat 352F, Cat 340 Next Generation and Cat 330F. The machines have demolition tools from Cat Work Tools and hydraulic quick couplings from OilQuick.

"We are very pleased with Cat's demolition tools and use them on most of our machines," Persson adds. He has particularly high praise for Cat's MP365 large pulverizer, calling it an "incredibly good tool."

The visit to Bilia is one of the hottest days of the summer with a temperature of around 86° F (30° C). The operators constantly replenish water supplies and there is a lot of dust. Dust suppression cannons from Duztech go at high speed to keep the air as clear as possible.

Persson explains that the job is divided into different stages. After beginning with heavy demolition, the crew pivoted in August with excavation to for

# Hammar Rocks!



**"It is going incredibly well now," says Johan Jansson at Jansson Entreprenad. "We have many jobs underway and new ones that are in the pipeline. But that's how it should be when you are the country's biggest demolition firm."**

new housing structures that will be built on the site beginning in November. At that time, Hammar says, the current 30-person workforce will likely more than triple. The new construction will be completed in 2025, and include a separate building in which much of the site's demolition debris will be reused. Johan Jansson, who owns and operates Jansson Entreprenad with his brother Victor, says business is going very well.

"We have a lot of projects underway and new ones are added all the time," Jansson says. Examples include Värtahamnen, a major new apartment complex adjacent to Stockholm's harbor. Outside the city, the firm is demolishing a large property in the suburb of Liljeholmen, and is scheduled to begin demolition of the old Kalix road bridge in the far north of Sweden this fall. Jansson feels such a heavy workload is to be expected as "we are the country's largest heavy demolition contractors, in my opinion."

### Third-generation contractors

Jansson Entreprenad opened its doors in 1946 in the haulage industry, led by Janssons grandparents. His father, Kjell, joined the company early and eventually

took over the business, which has focused on demolition, remediation, and recycling for the past 25 years. Today, Kjell has taken a step back for the benefit of his children. Along with Johan and Victor, daughter Malin works on the business's administrative side. Jansson Entreprenad currently has 35 demolition machines in its fleet, from 1t Bobcats to 104t excavators, most of which are made by Caterpillar. Each carrier has about five different hydraulic demolition and sorting tools at its disposal, adding up to about 175 hydraulic tools. The tools are of the type hydraulic hammer, pulverizer, concrete shears, shredders and sorting buckets, milling cutters and more. The majority of the excavators are also fitted with hydraulic quick coupling systems from OilQuick.

Most of Jansson Entreprenad projects consist of own turnkey contracts in demolition and construction work. The organization calculates and manages the contracts under its own auspices, usually with its own resources when capacity exists because investments have been made for generations on an ongoing basis. Today, an estimated 80 to 85 percent of jobs are demolition, but work is being done to increase regular construction operations. The 40-person company occupies a 1 million ft<sup>2</sup> (100,000 m<sup>2</sup>) industrial site in Linköping, where it also operates a recycling and sorting plant. An office, workshop and machine and tool warehouse facility was recently opened north of Stockholm.



**Hannes Hammar, project manager for the Bilia job and says that Jansson Entreprenad is responsible for decontamination and demolition for general contractor Zengun. The client is Fabege.**

"With as many jobs as we have in the Stockholm area, we simply have to have our own depot on site," Jansson says. "Here we have plenty of space for both the staff and our machines. Jansson himself moved to Stockholm four years ago to be on site and lead the business.

"It is not extremely far between Linköping and Stockholm," he says, "but it is time consuming to commute

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

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A total of 40,000 solid tons of concrete will be demolished and transported away in Stockholm.



in the long run," says Johan.

Jansson Entreprenad is certified according to the quality management system ISO9001, the environmental

management system ISO14001 and the work environment system ISO45001. In 2020, the company was awarded the Infrastipendium prize by the Swedish industry orga-

nization Maskinentreprenörernas (ME) at its annual Big Infra Day event.

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

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# New Takeuchi Compact Excavator Models Take Productivity and Comfort to the Next Level



Over the past few decades, as urban job sites have become smaller and more restricted, the market for compact excavators has grown by leaps and bounds. Compact excavators can make quick work of numerous tasks that contractors used to perform by hand or with a less efficient machine.

When Akio Takeuchi launched his company back in 1963, it only produced parts and components for other equipment manufacturers. However, that changed in the early 1970s when Takeuchi recognized a need for smaller excavators that could work in tight, constricted spaces. About a year later, Takeuchi introduced the world's first 360-degree, full-turn compact excavator. While the innovative machine was a revolutionary breakthrough, it took some time for contractors to adopt it as a must-have tool on their jobsites.

"People initially saw the compact excavator as a niche machine," says Jeff Stewart, president of Takeuchi US. "The company worked for many years to enhance the mini excavator and make it useful for multiple applications. That's when the rental industry started to embrace the mini excavator, and its market began to really expand."

Over the past 40 years, compact excavators have evolved from simple digging machines to tool carriers that are useful for demolition, loading, land management, utility work and much more. Features like multiple hydraulic circuits now make it possible to outfit compact excavators with a wide range of attachments. That enhanced versatility can help business owners overcome tight budgets and an ongoing labor shortage.

"Compact excavators with multiple hydraulic circuits, including high-flow, can be extremely productive," says Keith Kramlich, national product and training manager for Takeuchi US. "Our excavator models from 5.5 tons and up feature first, second, and third auxiliary circuits as standard equipment. That enable operators to run attachments like augers, mowers, mulchers and breakers. The second circuit can serve as a dedicated thumb circuit or provide an additional function like rotation for a tilt-rotator coupler. Finally, the third auxiliary circuit lets operators easily integrate a hydraulic pin-grabber coupler, allowing them to switch out attachments from the safety and comfort of their cabs."

Compact excavator cabs have come a long, long way in terms of operator comfort. Operators who are comfortable

in their cabs can remain at the controls longer, experience less fatigue, use the machine more safely and remain highly productive throughout their shifts. That's very important today with the construction industry experiencing a severe labor shortage. To further improve operator comfort and productivity, Takeuchi is outfitting its compact excavators with roomier cabs featuring large, multifunction color monitors.

"With these monitors, operators can see their machine's health and get more done without having to step out of the cab," Kramlich says. "In fact, depending on the machine model, they can now set up multiple attachment presets, adjust flow rates – and in some cases, pressure settings – all from the comfort of their seats."

## New machines for a new decade

Takeuchi continued to roll out new machines in 2020, thanks to steady demand for both mini and compact excavators – even during a global pandemic. After a significant investment in time and resources, three new compact excavators – the TB225, TB257FR, and TB370 – joined the Takeuchi family last year.

"We talked to end users and Takeuchi dealers and reviewed the state of the market as a whole before introducing these new machines," Kramlich says. "We heard a lot of excellent ideas, and from there, we narrowed down a list of priority features, focusing mainly on what changes would bring our customers the biggest benefits."

When designing these new machines, Takeuchi included the aforementioned multiple hydraulic circuits, advanced hydraulic systems (on the TB370 and TB290), more comfortable cabs and Takeuchi Fleet Management (TFM), a telematics system that makes it possible for customers to manage their machines remotely. When it comes to demolition, out of the three new machines, the TB257FR and the TB370 have the size and the power to get the job done quickly and efficiently.

Weighing in at just under 13,000 lb (5,900 kg), the new TB257FR is designed for demolition, general contractors, pool contractors, municipal use, landscaping and road/bridge work. The "FR" in the machine's name stands for "front and rear" or "full rotation" capability. That means the TB257FR can almost rotate within the width of its track frame with the boom fully stowed for an exceptionally small footprint. It can also work within areas where there's just one way in and out, like a fenced yard or an alley. A side-to-side (STS) offset boom coupled with a tight tail swing offers excellent visibility

to the work equipment and enables it to rotate fully with very little overhang. The TB257FR features three auxiliary circuits and a boom-holding valve with an overload alarm.

The largest new Takeuchi machine, the TB370, can also handle whatever a contractor needs in a compact excavator. As the first model of Takeuchi's new generation line-up, it's been upgraded with state-of-the-art technology and a completely redesigned automotive-styled interior with intuitive user operation. It also includes three auxiliary circuits, as well as a closed center-load-sensing hydraulic system that's ideal for running hydraulically driven attachments. The tilt-forward cabin has been totally redesigned with an 8-inch (20.3cm) color LCD multifunction touchscreen display, jog dial and one-touch controls and a larger floor area for enhanced operator comfort.

## Future forward

Certainly COVID-19 will have lasting economic and socio-cultural impacts, and it will influence how manufacturers like Takeuchi approach new machine introductions in the future. It will be imperative for manufacturers to keep an open mind and examine their customers' needs from a new perspective.

"In my opinion, we're seeing what used to be years' worth of machine advancements being developed far more quickly," says Kramlich. "Manufacturers are trying to increase machine productivity to help contractors get more done since it's been tougher than ever to find dependable labor since COVID. Owner-operators are looking for more flexible machines that they can easily monitor and product support that they can depend on."

Takeuchi's Stewart says he feels that customers want to be able to do more with smaller, more compact machines like those his company manufactures. That's why Takeuchi is developing better tool carriers for the growing compact equipment market. He also believes that "greener" machines, like those that use battery power instead of fuel, will also be in high demand.

"Our company has always focused on providing a specific type of compact machine," Stewart says. "That has allowed us to communicate with our customer base and incorporate the features they want most. Our plan is to continue providing the best possible quality and support, and we'll continue talking with our customers to ensure we're manufacturing machines that truly help them do their jobs better, faster and more easily."





**SMALLER**

**SIZE,**

**BIGGER**

**HOPES**

# Better late than never, rare June World of Concrete sets the stage for post-pandemic construction market.

In normal circumstances, a World of Concrete show approximately half its usual size would be cause for concern. Organizers report the 2021 edition attracted more than 650 exhibitors and “tens of thousands of industry professionals.” By comparison, 2020’s show, held just weeks before Conexpo, drew twice as many exhibitors and 54,000 registrants.

But after more than a year of life being anything but normal, the fact that World of Concrete was held at all was cause for celebration.

Postponing World of Concrete from its traditional January calendar slot in hopes of eased pandemic conditions proved to be a winning bet for the show’s organizers, as the June 8-10 timeframe arrived just days after Las Vegas lifted restrictions on building capacity and large gatherings. Even the summertime desert sun accommodated the schedule shift, providing participants with a week of high temperatures “only” around 95° F (35° C) sandwiched between stretches as much as 20 degrees hotter.

To be sure, there were differences. Indoor booths were limited to the familiar confines of the Las Vegas Convention Center’s North Hall and the recently completed West Hall expansion. The substantially smaller number of outdoor demonstrations were set up adjacent to the West Hall, with the traditionally bustling Silver Lot given over to the event’s masonry competitions. International attendees were far fewer in number as well, evidencing the varying levels of coronavirus spread and vaccination levels worldwide.

But big show or not, most everyone at World of Concrete seemed just happy to be there and savor a sense of “normal.” Many attendees likened the environment to a “Conexpo year,” which suited them just fine.

“There have been years when there were so many people, it was hard to talk to everyone or develop relationships,” observed LISSMAC national sales manager Mitch Scott, who was attending his 25th World of Concrete. This year, he added “we have more business owners and people who call the shots and make decisions.”

While many companies opted to stay home, “we can’t afford not to be here,” Scott said, citing the need to see customers and demonstrate products such as prototype 57hp (42.5kW) front- and rear-pivot floor saws that equipped with HATZ turbodiesel engine.

“After an extremely tough year for everyone, being able to return to Las Vegas with our machines and come



face to face with our customers and everyone present was exciting,” remarked Ignasi Moner, CEO of AUSA US Corp., which showed its compact and mid-range range of dumpers, and all-terrain forklifts. “You can tell how eager everyone is to get back to normality and finally put this pandemic behind us.”

And even a smaller crowd was enough to impress newcomers like Rob May, sales director for construc-

tion waste recycling specialist Senya Tech, which is introducing a “micro crusher” material processing line.

“The number of visitors was unexpected, but great for us, because we’re trying to get our name out,” May said.

## So much to see

A smaller World of Concrete didn’t diminish the show’s standing as a setting for new products. Husqvarna give visitors a first look at its K1 cut off saw, the first product to be powered by the company’s new PACE battery system. Weighing approximately the same as the 22-lb (10.1kg) K770 gas saw, the K1 uses specially designed 15- and 17-in (300 and 350 mm) diamond blades optimized for battery operation. In the event of a pinch or kickback, the saw’s X-Halt® brake function stops blade rotation in a fraction of a second for enhanced safety.

A Husqvarna spokesperson said the K1’s production rates and other specs are still being refined in advance of the saw’s official release later this year. Husqvarna has other battery equipment on tap for the U.S. market, including DM 540i core drill and VE 100i vacuum.

Another saw innovation on display was iQ’s 914 17-in (350mm) dry-cut power cutter, an existing model now featuring a fully integrated dust collector that the company says captures up to 90% of dust at the source. The integrated vacuum sucks dust through a retractable blade guard. This dust containment has a





capacity of up to 5 lb (2.2kg), with the ability to connect to the iQ426 HEPA Dust Extractor for additional dust collection capacity

The 914 features an 81cc German-engineered, two-stroke, high-performance engine and an anti-vibration system with five steel springs and a rubber-coated handle for fatigue-free operation. The motor offers a choke-free easy start system, and a one Push Stop-System that stops the engine and immediately prepares it for renewed operation. An electronically-controlled pump ensures the correct fuel-oil mixture.

Speaking of the iQ 426 dust exhauster, the model features a four-stage filtering system and 190 cfm of power in a rugged plastic casing that's more suitable for construction settings than many metal-framed models.

"We design our own products because we're tool users ourselves," explains iQ co-founder and CEO Paul Guth. "We know what we want, and what others want."

One concern unchanged by the pandemic is the ever-shrinking pool of construction labor. Hilti offered some answers with demonstrations of Jaibot, a semi-autonomous cordless mobile robot that works with building information modeling (BIM) data to 3/16 to 5/8- in (4.8-16mm) ceiling holes for mechanical, electrical, and plumbing systems at precise locations up to 16.5 ft (5m) high. Another alternative for overhead work is the EXO-O1 wearable exoskeleton, a human augmentation device developed with global prosthetics

and orthotics manufacturer Ottobock. Wearing an EXO-O1 eliminates strain and fatigue that arises from performing tasks at the shoulder level and above, yet doesn't constrain or interfere with normal movements.

World of Concrete was also the first chance many contractors had to see the fourth generation of Hilti's popular T70 ATC/AVR combination hammer, which was introduced last fall. Hilti says the upgraded tool incorporates electronic-based efficiencies that will help users drill up to 40% faster into reinforced concrete and demolish more concrete than the competing products in its class. The tool is also equipped with Hilti's Active Vibration Reduction technology that makes it less tiring to use.

A similar theme was found at the Makinex booth, where the Australian construction products manufacturer's North American representatives displayed the new Lift Assist LA90-350. The pneumatic device is specifically designed to lift 60- to 90-lb (27 to 41 kg) jackhammers out of holes, taking the strain off operators while also providing greater control and precision. Makinex also displayed its upgraded 23kW, 480V power box, which provides a seamless range of mobile power with upgraded wheels for improved jobsite mobility.

Tulsa, Okla.-based Vacuworx had plenty of news to share, from new systems for safely and efficiently handling large components such as precast, prestressed double tee beams, to customized attachments for Brokk demolition robots. The company has also introduced a

new online Training Center to help ensure dealers and contractors are able to use and service its equipment correctly and safely. The self-guided program currently includes five modules, each with course certifications, focused on the Vacuworx RC Series lifters including Installation, Daily Operation Checklist, Operation, Maintenance, and Troubleshooting.

Bosch's always-busy booth included the new PRO-FACTOR™ SDS-max® 18V Hitman™ Rotary Hammers. The 1-9/16 in (40mm) GBH18V-36C hammer delivers 5.2 lbf (23.1 N) of impact energy, while the 1-7/8 in (47.6mm) GBH18V-45C hammer delivers 9.3 lbf (41.4) of impact energy. Optimized for use with CORE18V™ PROFACTOR™ batteries, both models feature rotary hammer and hammer-only modes feature Vario-Lock positioning to rotate and lock the chisel.

The hammers also include Soft Start and controlled RPM and BPM, making it easier to control drilling and chiseling applications, with an on-tool user interface for tool performance, feedback and control. The GBH18V-45C model also includes a counter-balance weight in the hammer mechanism.





**The best—or at least better—is yet to come**

As World of Concrete's abbreviated week drew to a close, talk turned from how well the event lived up to its limited expectations to what the first months of the (hopefully for good) post-pandemic market may hold, including prospects for World of Concrete's 2022 edition, now just six months away.

"It was definitely odd having the show in June in what is the busiest time of the year for many contractors," observed Jason Root, sales manager for Syntec Diamond Tools. "The construction market seems like it will continue to thrive through the end of this year. We plan to exhibit in 2022 and expect a much better turnout."

# Kemroc KDS 50 Diamond Saw Dismantles a Historic Aircraft



**Sections of fuselage and other components were cut out. The cutting speed was equivalent to what would have been achieved using a conventional shearer.**

When no economical reason could be found for saving it, a 65-year-old Boeing 707-400 was scrapped in the Hamburg-Fuhlsbüttel airport on June 10<sup>th</sup>, 2021. To break the aircraft down, Thelen Industrial Demolition GmbH (TID) decided to use a KEMROC diamond saw attachment mounted on their own material handler. Some of the more valuable sections were due to be auctioned off in September.

With a buzzing sound, the diamond saw cuts through the left wing of the old disused Boeing 707-400 at Hamburg Airport. The outer end of the wing has already been cut off, and the operator cuts through the thin aluminium wing on the inner side of the engine. This is not a testing task for the powerful attachment mounted on the telehandler belonging to Thelen Industrial Demolition GmbH (TID). The forks of a telescopic forklift have been placed under the jet engine to prevent it from falling once it has been cut free from the rest of the aircraft. Final separation of the jet engine is carried

out using a shearer and the engine is then lowered, strapped securely and transported away.

### Cutting with Precision

"We fought with the engine for an hour", reported Jens Hamann, head of the Hamburg branch of TID. He had rented the KEMROC diamond saw from Tristan Vierbergen, an ex-colleague who is now Managing Director of Arvi, a Dutch supplier of demolition tools. TID had won the contract to scrap the 46 m long aircraft by cutting it into segments and saving historically valuable components for sale by auction in September 2021.

The KDS range of diamond saw attachments from KEMROC were developed for cutting through concrete, reinforced concrete, rock and fibreglass reinforced plastic. High rotation speeds combined with a large variety of saw blades make them highly effective in a wide range of applications. The KDS 50 mounted on TID's CAT MH 3024 telehandler made light work of the aluminium components on the Boeing 707. "Dismantling the Boeing correctly required precision tools", said Jens Hamann, explaining the logic behind his choice of attachment, "so it made sense to use the KEMROC diamond saw, which is known for its precision."

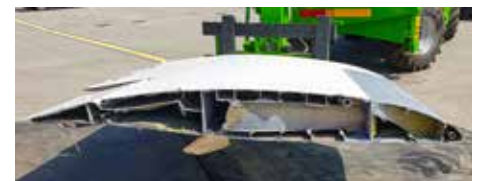
### Auctioning each Component

The jet aircraft era started for Lufthansa in 1960 with the Boeing 707 aircraft. In the same year, the aviation company took possession of the aircraft named "Frankfurt" and known with the identification DABOD. It made its last scheduled flight a good 15 years later. The aircraft was then based at Hamburg Fuhlsbüttel Airport and used for training technicians. In 1999, the airport purchased the aircraft for a nominal amount of one Euro and it was then used for exercises and as a film set. When the upkeep costs became too expensive, the owners tried to auction the four-engine jet as a whole but no buyer was found. The decision was then made to dismantle the aircraft and auction off individual components.

Thelen Industrial Demolition specialises in industrial assembly, dismantling, demolition, asbestos removal, environmental technology and fire damage restoration throughout Germany. On May 10<sup>th</sup> 2021, exactly one month before the deployment at the airport in Hamburg, TID employees



**The end of a veteran has arrived: On June 10<sup>th</sup> 2021, demolition experts from TID scrapped a 65 year-old Boeing 707. They used a KEMROC KDS 50 diamond saw mounted on their telehandler.**



**The diamond saw provides precise, clean, exact cuts. As a result, the largest possible sections of the Boeing 707 could be removed in original condition for auction.**

had scrapped a discarded Boeing 707-400 at Berlin Tegel Airport. In Berlin they had used shears and a grapple. Jens Hamann said that both Boeings were scrapped in different ways but the time to complete the work was about the same. "In Hamburg, the diamond saw proved to be very precise, allowing us to cut out the largest possible sections of the Boeing 707 in their original state, thereby maximising the value of each component at auction." The graduate engineer then added, "Certainly, we can imagine using the KEMROC diamond saw attachment for similar tasks in the future".

[www.kemroc.de](http://www.kemroc.de)

# Unique Inner City

Back in 2017, a fire broke out in the cultural-historical building Vildmannen 7 in Stockholm, Sweden. The building is now being reconstructed and the company Destory are responsible for the demolishing. PDA magazine recently spoke with Destory's production manager Niclas Gustavsson.

The Vildmannen 7 ("The Wild Man 7") building was constructed between 1895 and 1897, based on drawings by Erik Josepsson, a well-known Stockholm architect. The building is known for its unique façade embellished with flowers and animals, as well as for its construction material Roslagen sandstone, which was also used when building the Royal Palace. The Stockholm City Museum have given Vildmannen 7 a "blue marking," the highest category for cultural-historical buildings in the city.

In 2017, the property was damaged in a great fire, which destroyed the interior of the building. Fortunately, it was possible to save the 120-year-old stone façade, and the property owner Hufvudstaden will now rebuild the interior of the building. Before construction can begin, the remains of the burnt interior needed to be transported and demolished. For this job, they have hired Destory, a demolition contractor based in nearby Skogås. Founded in 1995, Destory has experience in working with larger projects. Still, Gustavsson says Vildmannen 7 was out of the ordinary.

"It is the first time I've ever done anything like this," Gustavsson says when we meet him at the jobsite. At this point, Destory have already demolished the entire interior, with the façade being the only thing remaining, standing like a high wall around us. Interestingly enough, preserving the façade of a demolished building is not the only unique aspect of this project.

On the worksite, we meet a scuba diver—an unusual sight until you consider that the basement floor of the new building will have a higher ceiling height than its predecessor. To do this, a new concrete foundation has to be cast 5 ft (1.5m) deeper into the ground, below the



ground water. The casting process is carried out using the same technique as with the casting of bridge abutments and will be carried out until the summer of 2021.

"It is very important that the ground water remains unchanged, otherwise the whole wall can fall," Gustavsson says, hence the need for the scuba diver. The underwater

casting is carried out by a specialized underwater contractor. Nearby, Destory's workers are demolishing the old, remaining concrete foundation with the help of diamond tools. Destory's working process can be divided into five parts—clearing, demolishing, heavy-duty demolishing, basement demolishing, and work with the concrete

foundation. In the initial phase, it was important to empty the area of material that has been damaged by the fire. Jackposts and rubbish chutes made it possible to securely transport all of the debris. The next step was advanced demolishing work which had to be carried out in several steps. For example, the floor structures were connected to the

# Demolition Project



Brokk 100 and Brokk 160 demolition robots, a 14t Doosan excavator, and reciprocating saws and other equipment from Hilti. As with all larger demolishing jobs, several tons of debris which has to be removed.

"It has mainly been bricks and beams damaged by fire," Gustavsson says. "Apart from that, we have sent mixed demolition remains such as metal, asbestos, "blåbetong" [a type of autoclaved aerated concrete] and granite rock and boulders to the landfill."

When the foundation work is done, the workers begin the process of constructing a concrete frame cast on location, so that the new internal parts can begin to take shape. The new Vildmannen 7, complete with four floors and basement, is expected to be completed in early 2023, with room for shops, restaurants, offices, and residences.



façade, which means that they had to be removed carefully without damaging the parts that were to be preserved.

"When we'd cleared the interior it was time to start reinforcing the façade," says Gustavsson.

The façade was reinforced with a new foundation where piles were drilled through the existing dry stone

and down to solid rock. Other stages included sawing of a slot as well as replacement of trusses which had been put up to carry the façade right after the fire. In total, 15 people have participated in the demolishing work which has included a combination of mechanical demolishing and demolishing with reciprocating saws. They have used the



## Atlas Copco Introduces PAS HardHat Dewatering Pump Range

Atlas Copco Power & Flow has launched the PAS 100 and PAS 150 dewatering surface pumps with robust proprietary HardHat® technology. The lightweight yet tough canopy means the pumps are durable and easy to service, providing excellent long-life high performance while minimizing downtime. The PAS pump range is designed for multiple applications, from dewatering on construction and mining sites to solids removal, drainage, and even emergency flooding situations. The exclusive HardHat® polymer is resistant to corrosion and the effects of extreme temperatures and harsh operating environments. As such, it is maintenance free. Furthermore, the canopy is resistant to discoloration, which is especially important for rental companies, as the equipment's resale value is maximized. Additionally, the HardHat® doors can be painted in any colour depending on the customers' requirements.

Thanks to a novel Atlas Copco hinged door design on the pump itself, the pumps provide superior serviceability on site. All components are exceptionally easy to access for simple servicing and maintenance. The pump can be cleaned and restarted in just three minutes and serviced in under 60 minutes, which is 10 percent quicker than previous models. The compact and versatile pumps are easy to move around a site and provide continuous operation for 24 hours. The pumps feature an advanced PW series control panel, so the operator has total control over the application, as well as including Atlas Copco FleetLink telematic system. This intelligent telematics system allows operators to easily monitor and manage their entire fleets remotely. The pumps are available in three package options – standalone, or with a galvanized undercarriage or skid – making them ideal for rental companies.

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



## Blastrac Releases New Small Planetary Grinder

The Blastrac BMG-444 is the smallest planetary triple head grinder of the Blastrac range. It is very compact and can access limited areas. Featuring speed control or not, all the user need to do is to make a choice between two versions.

The machines are easy to maneuver and benefit from minimum vibrations and a low noise level. With the advantage of an adjustable steering handle that includes a storage place for a smartphone, it is easy to keep control of the machine. In addition, the BMG-444 can be folded for easy transportation onto small vehicles. The BMG-444 can also be easily dismantled in three parts.

The planetary system of the BMG-444 is in a completely casted housing for 100% sealing of the lower belt against dust and water. It makes the machine very easy to clean without any risk! In addition, they are equipped with a self-tensioning upper belt with long lifetime. This means there is no need to adjust the belt tension making it easier to maintain belts!

The floating shroud is made of one single piece allowing easy locking for changing tools and transportation. Like all other Blastrac triple disc grinders, the BMG-444 will be delivered as standard with Slidemag adapter plates that can be equipped with any type of Slidemag wings, including grinding



Equipped with speed control system.



Easy adjustable steering handle-

wings, PCD wings, polishing and ceramic pads.

The new BMG-444 is equipped as standard with a floating shroud and extra nozzle for better suction performance. It also has a water hose connection with an easy adjustable ball valve flow control.

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Completely casted housing.



Watch the video



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