

PROFESSIONAL DEMOLITION AMERICAS

Your Gateway to North, Central and South America

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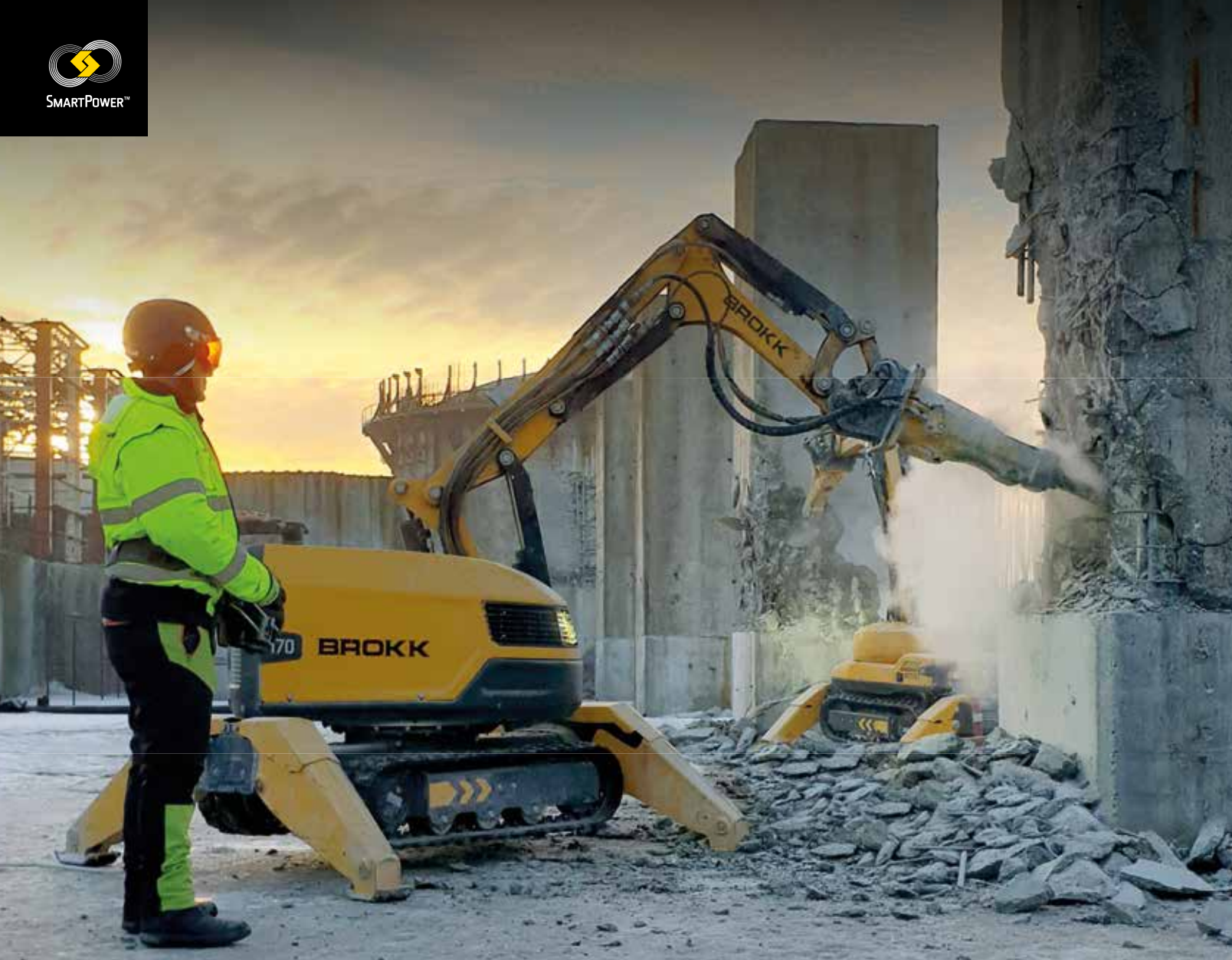
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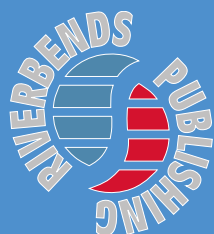
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A Bauma Already Like None Other

When the doors closed on the last day of Bauma 2019, few could have imagined the changes and challenges we would experience before the world's construction community again gathered in Munich. To say that a lot has happened in the intervening 1,289 or so days would be a huge understatement.

The COVID-19 pandemic, of course, tops the list, with the virus's distinctive spikes appropriately symbolizing the many ways it figuratively turned the planet upside down. How many of us lost friends or family members to the virus, or are dealing with so-called "long COVID" effects that may never abate? Who hasn't had to adjust their work practices or develop new habits in the name of keeping ourselves and others safe?

Thankfully, vaccines, refined safety protocols, and basic awareness have helped humankind cope with and, in some cases, overcome COVID-19's hazards. But the virus and its variant-driven ripple effects are still very much with us—from disrupted supply chains to exacerbating an already strained labor market. Inflation likewise has infected most of the world's economies, with some faring better than others.

Even though it appears Bauma's gamble to hold its 2022 edition later in the year stands a good chance of paying off in terms of relatively strong exhibitor and attendance numbers, there'll still be the specter of an active war just a time zone away, its own disruptive effects yet to fully unfold.

Still, it's important to remember that shows like Bauma aren't held in defiance or ignorance of the world's challenges; rather, they showcase humans' intrinsic ability to adapt and respond to them. In the construction and demolition arena, for example, consider how many machines have become easier to operate and maintain in response to the aforementioned shortage or

workers, or the energy technology that supports long hours of productive operation without the need for conventional fuels—a feature that benefits the planet as well as contractors' bottom lines.

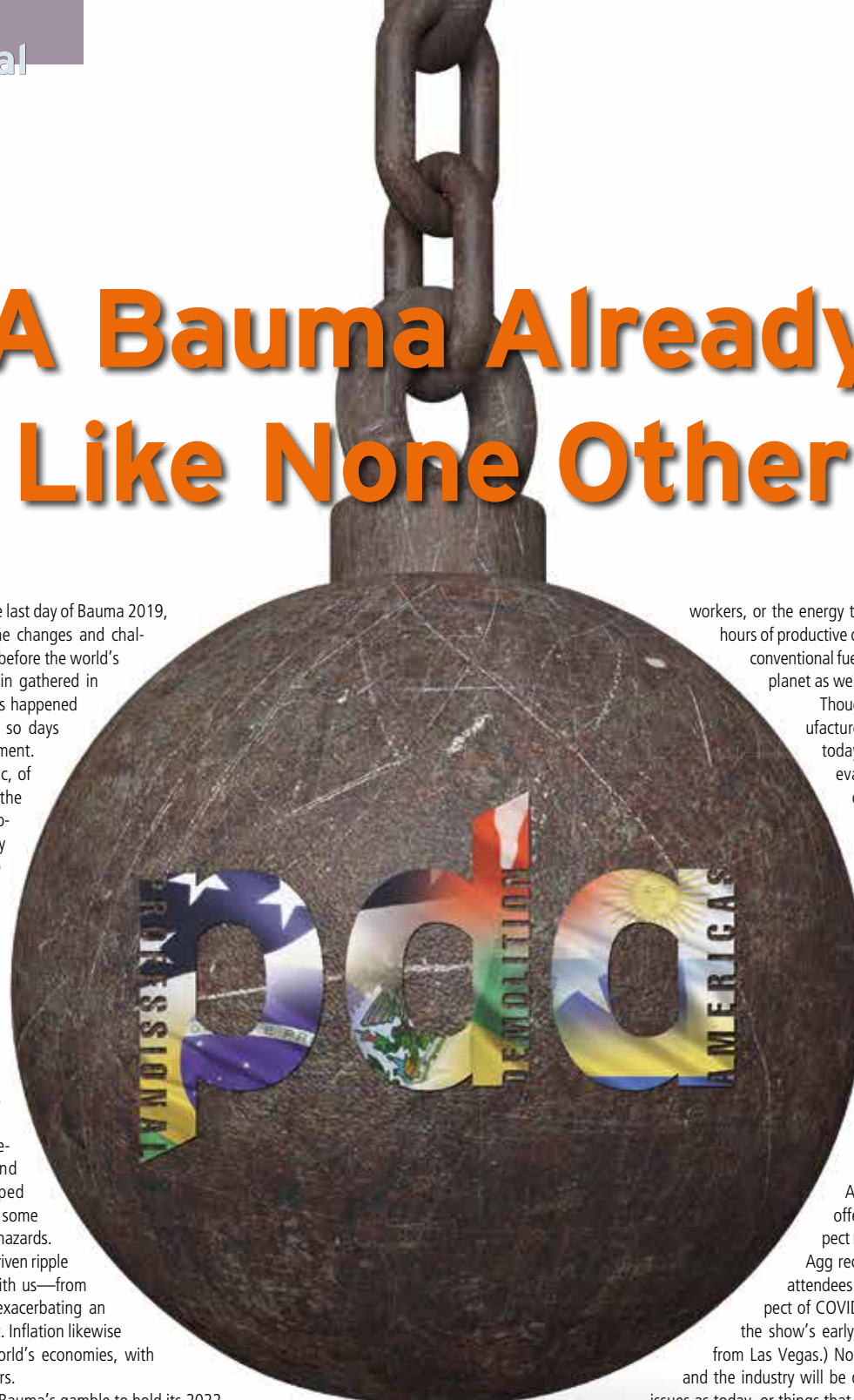
Though it may seem that every manufacturer offers a telematics platform today, the ability to monitor and evaluate machine performance offers a host of intriguing opportunities for streamlining operations and staying competitive while also providing customers the most value for their investment. And appropriately for a time when "supply chain" is on everyone's mind, mega-shows like Bauma offers insights into other facets of the industry and how their innovations influence and complement what end-users do, and how they do it.

For contractors in the Americas, Bauma 2022 may offer a harbinger of what to expect next year, when Conexpo-Con/Agg reconvenes in Las Vegas. (2020 attendees will recall that it was the prospect of COVID-cancelled flights that forced the show's early shutdown and mass exodus from Las Vegas.) No one can say what the world and the industry will be dealing with then—the same issues as today, or things that have yet to emerge.

Maybe that's the best motivation to stage a Bauma or Conexpo. They are supersized reminders that not every problem is intractable, and that while you may not always find what you want, you may well discover exactly what you need.

If you do make the trip to Munich in October to take in some of that precious optimism, we hope to see you there.

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





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

NDA Begins 50th Anniversary Celebration Next Year

In 2023, the National Demolition Association will begin its 50th anniversary celebration. The industry has a proud history. Part and parcel of the demolition industry is the removal of unsafe structures and hazardous materials. Since the founding of civilization, society has been a constant state of renewal, repurposing the obsolete, demolishing and tearing down of buildings and other artificial structures making way for progress.

In the modern era, demolition encompasses a wide range of activities from lead and asbestos abatement, nuclear denomination to structural demolition and dismantlement, industrial recovery and recycling. Our industry responds to disasters as emergency support personnel, clean up brownfields and Superfund sites, process a huge quantity of the waste stream for reuse and recycle our nation's most valuable resource—land. In short, we are responsible for a safer, cleaner, livable environment.

On Dec. 2, 1970, the Environmental Protection Agency (EPA) began operation, after President Nixon signed an executive order, Reorganization Plan No. 3 of 1970. The creation of the EPA brought about the regulation of the nation's air, water, and soil with the goal of protecting people and the environment from significant health risks. The agency's mission is a shared purpose the demolition industry had been practicing for decades, if not centuries.

A little over a year later, a group of forward-thinking demolition contractors met in Hollywood, Fla., to discuss how the industry could better align its services with that mission. The charter members lived with the challenges of a highly competitive industry every day and saw the benefits of joining in common interest. It was the first step in forming an association to promote the betterment of the industry and increase public understanding of all phases of the demolition industry.

The following year, Demolition Age magazine's first issue was published, and the Internal Revenue Service issued a determination letter in November of 1973 recognizing tax-exempt status, establishing the National Association of Demolition Contractors, now the National Demolition Association. In 1974, the organization held its first annual convention and expo at Caesars Palace in Las Vegas. From our earliest days, the association's goals were to help its members grow their companies in a safe, productive manner, while improving the quality of life in the towns and cities they served. Today, we continue that mission as we work toward the first industry-recognized certification, offer safety and training programs such as the Foundations of Demolition Training Series, and develop and refine guidance documents for members to ensure every job is safe while also keeping the communities and environment in which we work and live clean, livable, and prosperous.

We invite everyone in the demolition industry to join us over the next two years as we celebrate our founding. NDA will officially launch its Golden Anniversary in the fall of 2023 and come together to celebrate its half-century of accomplishments at the 2024 Annual Convention in San Antonio Texas. Mark your calendars for March 6-9, 2024.

And if you're not already an NDA member, you should be. Join us.

Jeff Lambert
Executive Director

www.demolitionassociation.org



Aquajet hosts first "World Tour" Events in Europe and North America

Aquajet's first 2022 World Tour events saw 115 new and existing customers from 13 countries attend events held in Europe and North America. Aquajet's German distributor Brokk Germany, co-hosted a European event in Friedenweiler, Germany, while North American distributor Brokk Inc. co-hosted U.S., Canadian and Latin American participants in St. Joseph, Missouri. The events provided advanced training, equipment demonstrations, including the new Aqua Cutter 750V, and networking opportunities to help participants learn more about the capabilities of Aquajet equipment to maximize productivity. This year marks the first time Aquajet has held large training and demonstration events outside of the company's headquarters.

"In the past, we held these events in Sweden, but taking our technology and experts on the road has allowed us to meet our customers closer to home, in many cases," explains Roger Simonsson, Aquajet CEO. "Expanding to Germany and North America made it possible for more companies to participate and bring more team members to see the equipment and learn how to use it to its full potential."

The World Tour events included advanced classroom training on how users can maximise productivity and results with their Aquajet machines. Participants had the

opportunity to see the Ergo hydrodemolition system, which is said to provide four times the power of a hand lance in a compact unit. Additionally, attendees were able to experience the silent operation of the Ecosilence 3.0 high-pressure pump and watch the Ecoclear 2.0 wastewater treatment system work with the new Aqua Cutter 750V. Together, the machines aim to provide contractors with what Aquajet says are industry leading safety and productivity delivered by robotic hydrodemolition, with the added benefit of onsite, on demand wastewater treatment, all in a compact footprint that meets strict environmental regulations while providing high levels of versatility for congested jobsites.

"This was our first time taking our equipment and training on the road, and we couldn't have had a better start," Simonsson says. "We plan to be back again with another World Tour as our technology continues to evolve and new processes are introduced."

www.aquajet.se



TESAB Engineering Names New Salse Director

TESAB Engineering is pleased to announce the appointment of Lee Johns as sales director. Johns brings more than a decade invested in the heavy equipment industry, most recently as general manager of JCB Financial Solutions. Dedicating most of his time at JCB developing dealer, distributor and finance partner relationships, he has developed unique insights through roles in sales, commercial and financial solutions. Lee brings this experience to the TESAB business to accelerate their growth aspirations in the short, medium and long term.

Johns will lead the sales organisation within the TESAB business and will work closely with current distribution network as

well as identifying & recruiting potential new dealers in his new role.

Johns will be based out of the United Kingdom. The appointment is effective immediately.



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Event Calendar

ExpoCihac, Mexico

October 12-14, 2022

Centro Citibanamex,
Mexico City, Mexico

www.expocihac.com

BAUMA 2022

October 24-30, 2022

Munich Exhibition Center,
Munich, Germany

www.bauma.de

DEMCON 2022

November 24-25, 2022

InfraCity, Bredden,
Stockholm, Sweden

www.demcon.se

BAUMA China 2022

November 22-25, 2022

Shanghai Exhibition Center,
Shanghai, China

www.bauma-china.com

World of Concrete 2023

January 17-19, 2022

Las Vegas Convention Center,
Las Vegas, Nevada

www.worldofconcrete.com

CONEXPO-CON/AGG

March 14-18, 2023

Las Vegas Exhibition Center
Las Vegas, USA

www.conexpoconagg.com

Samoter 2023

March, 2023

Verona Exhibition Center,
Verona, Italy

www.samoter.it

ARA Show

March 12-15, 2023

Orlando Convention Center
Orlando, FL, USA

www.arashow.org

Intermat 2024

April, 2024

Villepinte, Paris Nord,
France

www.intermat.fr

Wacker Neuson, John Deere to Collaborate on Mini and Compact Excavators

The Wacker Neuson Group and John Deere Construction & Forestry Company have reached an agreement for mini and compact excavators. The long-term exclusive OEM supply agreement covers mini and compact excavators weighing less than 5.5t, including battery electric excavators.

Wacker Neuson will design and man-

ufacture the machines at its facilities in Menomonee Falls, Wisc., and Linz, Austria. The excavators will be distributed under the John Deere brand via John Deere's global dealer network. The companies plan a phased introduction of models. All Wacker Neuson models in the same product range, will continue to be distributed under the Wacker Neuson brand through Wacker Neuson's own distribution network.

The agreement also covers a technical collaboration between John Deere and Wacker Neuson in relation to 5.5t to 10t excavators. John Deere will purchase and incorporate design and technical IP provided by Wacker Neuson, adapting and evolving it to meet its own manufacturing and innovation requirements. These models will be produced and launched on the market exclusively by John Deere, while Wacker Neuson will independently continue to develop, produce, and distribute its own branded excavators.

www.wackerneusongroup.com

Makinex USA to Relocate US Headquarters and Operations to Dallas-Fort Worth Region

Makinex USA announced that it is moving its U.S. headquarters from its current location in Torrance, Calif., to a new facility in Mansfield, Texas. The new facility, near Dalles-Fort Worth International Airport, greatly increases the capacity of warehousing, storage, production, and staffing capabilities. Business partners will continue to work with their same Makinex sales representatives throughout and after the relocation.

"Torrance has given us a great foundation to build on, and we have big plans for the future," says John Stewart, Group CEO of Makinex. "We are expanding our current product range, but we're also firmly committed to renewable technology. The construction industry will be radically different in the next five to ten years, and we are positioning ourselves at the forefront of that shift. Mansfield gives us a central location, generous space, and a wealth of local resources to support us."

Makinex USA's new address is 2151 Heritage Parkway, Mansfield, TX 76063.

www.makinex.com

MTA Distributors Expand Independent Rental Coverage Across US

Effective July 1, 2022, MTA Distributors will manage the distribution of the full Makinex line to independent rental customers in all 50 states. MTA Distributors will stock all Makinex equipment and parts in two distribution centers, maintaining their 100% same-day shipping guarantee.

For more 40 years, MTA Distributors has been a leading equipment and parts distributor to the rental industry. With their industry knowledge, distribution ability, and complementary products, the growing partnership with Makinex is a natural progression in providing a better way for our customers to

get their jobs done.

Over the past two years, Makinex has had a great partnership with MTA Distributors, who have supported the manufacturers' rental sales throughout the Southeast. In addition to this, Makinex is proud to announce that we are expanding its own sales representative network to continue to drive the partnership with MTA Distributors, and further strengthen its relationship with customers.

Millies Named McCloskey's New Group Sales Director for the Americas

McCloskey International is pleased to announce the appointment of Michael Millies to Group Sales Director, responsible for North and South America, overseeing sales for the full portfolio of McCloskey Group companies.

Michael joins the McCloskey International team with more a decade invested in the heavy equipment industry during his time with Komatsu, and most recently as the Sales Director for Enercon Ind. Millies brings a wealth of experience in financial data analysis gained through his MBA from the University of Wisconsin – Madison. He has a natural focus on forging – new and strengthening existing relationships within the dealer network to drive a unified strategic vision and execution strategy.

"It's clear the dealership network for the McCloskey group has an excellent foundation that we will be able to tap into to strengthen the existing relationships," says Millies. "Being tied to a global brand experiencing rapid growth will present opportunities that will take all of us from where we are today to a promising future for all of those involved."

In his new role, Michael will continue the close working relationship McCloskey enjoys with its current distribution partners, identify and recruit prospective dealers to fill any gaps, and work with them on solidifying standard forecasting processes for better alignment in the future. Millies will be based out of the Lippmann Milwaukee factory.

mccloskeyinternational.com

Brokk Welcomes Western Canada Sales Manager

Brokk recently named Troy Steele regional sales manager for the western region of Canada. Steele has 16 years of experience in equipment sales and will serve Brokk customers across all industries, including demolition, construction, mining, cement, metal processing and tunneling. He will also serve Aquajet Hydrodemolition customers in Western Canada.

"The time is right to expand the Brokk and Aquajet team in Canada, and Troy has the experience to hit the ground running," says Lars Lindgren, president of Brokk Inc. "With his previous work in cutting, coring and demolition, he provides strong insight to help contractors and plants find solutions to their most pressing challenges. He also brings great energy to his position with

his passion for being out in the field and working hands-on with customers."

Before joining Brokk, Steele served as national sales manager for Cyclone Diamond Products where he was responsible for all sales and leading the sales team in Canada. His other past positions include manager of business development for Champion Group, district manager for Wacker Neuson, and account manager for Hilti Canada. Steele earned a Bachelor of Business Administration with a finance and economics concentration, from University College of Cape Breton. He lives in Calgary, Alberta.

www.brokk.com

Tuff Torq Opens Test Engineering Center

Tuff Torq Corporation has celebrated a major milestone in its history with the grand opening of the its new Test Engineering Center. The 17,000ft² (1,579m²) facility allows for significant expansion of Tuff Torq's testing capabilities and supports continued growth of the company. Tuff Torq's Test Department has expanded significantly in the past 27 years, and now boasts more than thirty employees, fifteen test stands, two test tracks, and multiple other pieces of equipment. The new dedicated testing facility will further enhance Tuff Torq's testing capabilities towards improving quality and reliability and increasing customer value. A ceremony was held to commemorate the opening of the facility, and was attended by Tuff Torq management and employees, and representatives of the local community.

"Tuff Torq's sales and product portfolio have grown to the point where more testing and new types of testing are needed," said Yoshimune Yamaoka, chairman of Tuff Torq Corporation. "It is thanks to your continued efforts that Tuff Torq has succeeded and faces a secure future."

Another unique feature of the new building is its Yanmar energy system, which allows for lower operating costs and helps to achieve the goal of reducing the carbon footprint and providing sustainable solutions to customers.

Tuff Torq is a subsidiary of Kanzaki Kogyokoki Corporation, which is part of the Yanmar group.



The Five Best Attachments for Cross Passages

Cross passages in underground tunnels provide a unique challenge for construction crews. Compact, strong and precise, remote-controlled demolition robots with specialized attachments are the go-to solution for improving safety, speed and productivity in cross passage excavation. Here are a few demolition robot attachments that can make tunneling contractors' lives easier.

Bucket

Because they convert a demolition robot into an agile excavator, buckets are a no-brainer, versatile attachment for cross passage excavation. They can dig, sort and separate material, and quickly load it into carts for removal from the passage.

Beam Grapple

Beam grapples handle the important work of placing support ribs in the passage. Some manufacturers offer beam grapples that are lightweight yet stand up to tough tunneling conditions and lift as much as 1,100 lb (500kg).

Breaker

The breaker is a pro at removing large amounts of material, breaking it down and

sizing it. Designed to hit harder and faster than a mini-excavator paired with a breaker, breaker-equipped remote-controlled demolition machines also produce less noise and vibration, making them perfect for tunneling.

TEI Rock Drill

Paired with a demolition robot, the TEI Rock Drill is ideal for drilling blast holes in confined spaces. It excels at cross passage work because of its ability to drill at all angles and directions, and as a bonus is far quieter than pneumatic handheld drills.

Drum Cutter

Drum cutters gently remove layers of hard, reinforced ground for cross passage excavation. The attachment is especially suited for tunneling work thanks to low impact operation that produces less noise and vibration. The perfect pairing of a remote-controlled demolition machine and the best attachment for the job can mean days or even weeks of time saved on a project. Contact a demolition robot manufacturer to find out how the equipment can increase efficiency and profits on your next project.

www.brokk.com



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Mecalac Introduces New Range of Compact Loaders

The new Mecalac MCL range includes six models from 1.74t to 2.85t with four models coming with a long boom (standard) to meet the needs of the agricultural segment. The MCL2 has a small size and wheeled motor transmission to provide agility. Though the smallest machine in the MCL range, the MCL2 has all the features of larger equipment. Its modern and ergonomic operator's station is protected by a canopy and is also available in a cabbed version.

Likewise, the MCL4 provides an excellent compromise between compactness and lifting performance. With its 24.7-hp (18.4kW) engine, it is also the ideal machine for rental fleets that require a durable and high-performance machine. Its low transport weight also allows the machine to be transported on a road trailer.

The MCL6 comes with many of the best features of the MCL4 but with even more power. Its 48.2-hp (36kW) motor allows it to reach and maintain high speeds on the road. Its high hydraulic flow and its speed of execution allow it to considerably increase productivity on worksites. MCL8 has been designed to provide power, high dumping height and lifting capacity. It is also at ease in all circumstances whether it is for loading, handling or driving hydraulic attachments.

Two models with short boom to meet the needs of the construction segment are



the MCL4+ /and MCL6+. Amongst the construction focused features, the short arm versions are designed to offer an increased tipping load. All the machines will be available in three versions: canopy, canopy with foldable top or cab version, and all with a wide selection of attachments.

The new MCL range can be equipped with Mecalac's latest comfort and driver assistance technologies. These include M-Drive, which turns the machine into a tool carrier with the facility to control the speed of the machine with the foot pedal at a selected engine rpm. Speed control helps to redefine the speed range that can be used via the foot pedal as required (i.e., choosing a lower speed will allow the operator to do more precise work). MyMecalac Connected Services maximizes the use of machines thanks to optimised and accessible machine data, reduced downtimes, and better fleet management. Finally, Start-up Digicode provides a keypad that enables the better control and use of the machine.

www.mecalac.com

Sennebogen Presents New 30 t Battery-Powered Material Handler



Sennebogen has developed the battery-powered 30t 825 Electro Battery material handler, which allows completely emission-free operations. Like the battery-supported variant of the existing 817 Electro Battery, the 825 Electro Battery impresses with its intelligent dual power management, which allows autonomous working in battery operation as well as when connected to the mains. Depending on the power requirement, the 507hp (378kW) lithium-ion battery pack enables working times of up to eight hours without recharging. Connected to the power supply via the charging point on the undercarriage allows stationary work to be carried out.

The machine can also be connected to conventional power sockets thanks to the on-board charger and the 63A CEE plug system, eliminating the need for additional investments in charging stations. It also offers more comfort for employees, as it is quieter, has lower vibrations and is completely emission-free. The lower service costs and thus also the reduced operating costs associated with the electric machine are another plus point of the battery-powered material handler.

Look for the Sennebogen 825 Electro Battery on display at Bauma, outdoor stand FM.712.

www.sennebogen.com

Pentruder



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www.pentruder.com



Have a Blast

A shot blaster is a valuable part of any surface preparation contractor's equipment arsenal. Efficiently powering away debris and contaminants provides an important head start for making an aged concrete floor like new, while also taking the cleaning burden off other tools. Here are some of the many shot blaster machines available to contractors today.

BlastPro BP-9-110V is a rugged option for small jobs

The BP-9-110V from BlastPro is an affordable, highly portable, lightweight shot blaster used to prepare concrete prior to the application of

paint or coatings. With a capacity of 275 ft² (25.5 m²) per hour, it's perfect for smaller jobs such as residential garage floors, pool decks, and small industrial floors. The BP-9-110V has a manually controlled travel speed and a 9-in (229mm) blast pattern, making it ideal for tight spaces, as well as a complimentary unit on larger jobs for cleaning edges.

The BP-9-110V strips, cleans, and profiles in one easy step, making it a cost-effective labor and time-saving cleaning system for small to medium sized jobs. Weighing only 121 lb (55kg), the machine is easy



to handle and transport, with virtually dust-free operation when connected to a dust collector. A rugged 50-ft (15.2m) wear-resistant 12/3 electrical cord further enhances the BP-9-110V's go-anywhere attributes.

www.blastpromfg.com

Blastrac products remain available pending rebrand

In June, Husqvarna introduced the first rebranded Blastrac surface preparation products since acquiring the company in late 2020. While shot blasters are part of the next wave of new products due for release in Spring 2023, most existing products remain available under the Blastrac brand.

Here are some examples:

A variety of improvements make the Blastrac 1-8DPS30 easier to operate and handle than ever before. This economical, self-propelled 8-in (203mm) shot blasting system now

features drive controls on the steering handle. An EZ-adjust system for the control cage is another new feature that is operator friendly. Laser-cut components and utilization of improved manufacturing technologies along with a powder-coat finish helps assure quality construction and long life.

Powered by a 4-hp (5.4 kW) motor, the 1-8DPS30's self-propelled operation improves productivity and promotes a more even and consistent blast pattern and surface profile. It consumes abrasive at less than 9 lb per hr. and strips, cleans and profiles in one easy step to prepare concrete surfaces prior to application of coatings or overlays. A 35-ft (10.66) cord provides extra distance from the power source. Ideal



for industrial floors, warehouses, commercial or residential garage floors, this shot blaster can prepare up to 600 ft²



ast!



(55.7 m³) per hour. The 1-8DPS30 is also perfect as a complementary unit for larger shot blasters.

For larger-sized jobs, the 1,268-lb (575kg) Blastrac 2-20DTMKII is a powerful self-propelled 20-in (550mm) shot blasting system strips, cleans and profiles concrete and asphalt, or horizontal steel surfaces in one easy step. The AC inverted drive-motor for self-propelled operation features an integrated brake which helps maintain speed on ramps and inclines. This improves productivity and promotes a more even and consistent blast pattern and surface profile. In fact, the 2-20DTMKII has an hourly production capacity of up to 4,850 ft² (450m²) on concrete.

Attached to Blastrac's BDC-99 dust collector, the 2-20DTMKII operates virtually dust-free. A slide-out screen in the shot hopper facilitates the removal of large debris. It's perfect for industrial floors, warehouses, road and airport maintenance, and parking garages, this shot blaster is an environmentally sound choice for high productivity in surface preparation.

www.blastrac.com





Meet the STREAMER S210E40R from IMPACTS

The STREAMER S210E40R from IMPACTS is a powerful, but compact and lightweight mobile machine suitable for shot blasting of small to medium areas on concrete, screed, asphalt, and some steel surfaces. The combination of a powerful wheel motor with an optimized separation system, while a variable speed drive motor makes the machine very efficient across its 8.26-in (210mm) working width. Weighing 276 lb (125 kg), the S210E40R's 5.4 hp (4kW) blasting power produces an hourly blasting capacity of up to 861 ft² (80 m²) on concrete. In order to achieve optimal blasting capacity and performance, IMPACTS recommends matching the STREAMER S210E40R with the DUSTCOM 3003AR-LP dust collector, a three-motor, 3,300-watt machine specially designed for hard jobs in surface preparation applications.

www.impactsgmbh.com

SPE's 20E Super is serious business for the serious contractor

The SPE 20ES shot blaster is a large machine for the serious contractor, ideal for high productivity. With an electrically powered hydraulic drive, the machine is ideal for the preparation of both concrete floors and steel surfaces. Easily dismantled, the 1,459-lb (662kg) 20ES can be conveyed through an access opening as small as 23.6-in (600 mm) wide to tackle storage tanks and other confined spaces. The 20ES has a 20-in (508mm) working width that can be reduced for line removal and weld inspection. The blast unit, constructed of manganese steel, can handle an output of 30hp (22.5kW). The machine's dust collector is fitted with integral compressor and reverse air jet pulsation system to allow continuous working with a self-propelled variable-speed drive for complete operator control. A grille fitted into the lower separator hopper unit

assembly protects the blast wheel from potential damage from foreign objects. An optional feature allows the blast wheel to be rotated in both directions.

www.spe.bartellglobal.com

Think big with BW Manufacturing D-1800

BW Manufacturing introduces the D-1800, the latest in state-of-the-art surface preparation technology. With a chassis weighing 4,480 lb (2,032 kg), the new model is

designed for industrial floors, roads and bridge decks, parking structures, aviation jobs, and many others.

BW designed the D-1800 in response to years of contractor's requests to solve the messy, time-consuming issue of dust removal from the machine. The hydraulic dump box gives operators the ability to dump a 55 gallons (208 kg) worth of material in seconds. The newly designed BH-18 Blasthead features the same feathered blast pattern found in BW's 16-in (406 mm) wide BH-16 model, while delivering increased production as well as a 2-in (50.8mm) wider cleaning path. Fully replaceable inner liners increase housing life, while cushioned swivel casters allow for easy maneuvering over flat surfaces. Newly designed seals, floater plates, and shot separator system allow for increased output and decreased shot consumption. Other chassis upgrades include a planetary gear drive for greater low-end torque and faster drive speeds. Newly formatted controls and seating position give the operator a better view in front and behind machine attachments. A new tilted hood allows easier access for maintenance as well as other internal advancements to decrease service intervals and increase production.

www.bwmanufacturing.com



Mazio XL Hydraulic Rock Breaker Ideal for Quarry and Demolition Applications



The heavy-duty XL Series of Hydraulic Rock Breakers from Port St. Lucie, Florida-based Mazio Attachments LLC provides reliable performance in the most demanding applications — from quarries and mining, to tunneling and trenches, to demolition and more. Designed for carriers from 1 ton to 140 tons of operating weight — including mini excavators, skid steer loaders, backhoe loaders, and excavators — Mazio XL Breakers will withstand the brutal conditions faced in these applications, providing reliable performance day in and day out. Mazio hammers feature a closed case built from 100% Hardox steel to protect the body from wear and impact, setting them apart from most breakers on the market today.

In addition, a number of standard features also lend to the breakers' durability, including anti-blank-fire technology, which minimizes wear; an energy recovery system that reduces the required oil flow; and the breakers' double-damping system that results in less vibration. Variable impact speed and power can be manually tuned using an Allen tool, allowing the operator to adjust the breaker for correct productivity. A lower breaker speed provides greater power, while higher speed reduces the power, depending on the application needs.

All Mazio breakers come with a 5-year warranty. They also are available with the company's exclusive vibration-activated Digital Hour Meter, which accurately measures the tool's operational hours, differentiating from the carrier hours, ultimately providing better tracking for preventative maintenance activities and billable hours. A 12-year integrated, sealed battery powers the meter as it automatically and autonomously tracks the tool's impulse during operation, calculating its true work hours. A fiberglass-reinforced heavy-duty rubber case protects the meter from harsh working environments.

Mazio offers six XL breaker models for 30t to 140-t mining-duty excavators, with tools ranging from 3.4t and 9.8



ft (2,980 mm) to 11t and 16.4 ft (5,000 mm). For 11t-36t excavators, five breaker models range from 1t and 6.7 ft (2,050mm) to 2.6t and 8.7 ft (2,650 mm). For compact carriers, there are six breaker models available from 287 lb (130 kg) and 3.2 ft (990 mm) to 1,279 lb (580 kg) and 5.9 ft (1800 mm).

Tool choices for Mazio XL Hydraulic Breakers include:

- **Cone-shaped tool for universal use in concrete and rock**
- **Chisel tool for rock breaking, concrete demolition, and asphalt breaking**
- **Cylinder tool for drilling and concrete demolition**
- **Moil point for universal use in concrete and asphalt**

• Blunt tool for demolition

Mazio Attachments LLC is an Italian manufacturer of specialized attachments for the construction, demolition, recycling, mining, aggregates, excavation, scrap, and forestry industries. With engineering and manufacturing facilities located in the United States, Italy, and Colombia, Mazio designs its distinctive purple attachments to work with all makes and sizes of carrier machine, from hydraulic excavators, skid steer loaders, and backhoes to wheel loaders, tele-handlers, and more. Mazio attachments are available through a growing dealer network or direct, depending on location. The company offers immediate delivery for spare parts and service, and field training for operators.

www.mazio.us

Better Late Than Never: Bauma is Back



Bauma's precautionary six-month delay appears to have paid off, with the show expected to attract more the 3,500 exhibitors from more 60 countries and 600,000 visitors from well over 200 countries. Bauma is still the world's largest trade show. PDa Magazine will as usual be on place covering the show and have its own booth in hall A1.

What is Bauma?

Bauma is not a monster show in a negative sense, most people can probably confirm that. Although it can be a tough show to attend as it lasts for seven whole days. Roughly speaking, what is not available at Bauma in terms of product does not exist. Bauma is the world's largest trade show in all categories, there is no other fair that can compare with Bauma, whether in terms of the number of exhibitors or exhibition space. The show spans everything in machines, equipment, and accessories in the construction industry and mining.

As PDa is a trade magazine with a focus on demolition, controlled demolition, concrete cutting, recycling, remediation, grinding and polishing of concrete floors, hydrodemolition, handling of concrete dust and slurry, etc. In this issue of PDa you find out all about the trade show.

Bauma was originally supposed to be held in Munich in April this year. However, due to the Covid pandemic,

the organizer already chose in April 2021 to move the fair forward to October 24-30. A wise decision that does not cause much trouble either for the organizer or the companies that will exhibit.

PDa Magazine, with its sister magazine PDi Magazine, will of course cover Bauma thoroughly as usual, partly with this regular show edition but also with a special edition that is distributed just before the fair and at the show itself. You will find us in stand 136 in hall A1.

Over the next few pages, you will find a list of selected exhibitors related to the product sectors that PDi covers. It can be good to be a little prepared when visiting the show instead of wandering around the nearly 6.6-million ft² (614,000 m²) fair consisting of 18 halls and three large outdoor areas. The pedometers will be running hot that week.

Concrete cutting equipment such as drilling systems, wall saws, wire saws, power cutters, diamond tools, light demolition equipment and demolition robots, machines for grinding and polishing concrete floors, air cleaners and vacuum cleaners, etc., can be found in hall A1. As usual, demonstrations will take place just outside the building.

Compressors, pumps, generators and more can be found in hall A4. Engines and components in A4. Different types of lifts, scaffolding and construction lifts are exhibited mainly in the North outdoor area. Large and small construction machinery, recycling equipment, demolition, and recycling tools can be found in halls C5 and C6 as well as the North and South outdoor areas.



Doubtful if bauma beat the numbers from 2019

When the show was organized in 2019, 3,700 exhibitors from 68 different countries greeted 620,000 people from 200 countries. More than 250,000 visitors came



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- Always the right attachment for the job.
- No staff around the machine during tool changes.
- Reduce the number of machines on the site.
- Meets and exceeds safety standards globally.
- For excavators 1-120 tonnes.
- Increased productivity.
- Increased profitability.
- Reduced transport costs.
- Eliminates oil spills.
- Protected hose run.
- Improved safety.
- Less dirt in the cab.



bauma

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from countries outside Germany, making Bauma a truly international fair.

Ahead of this year's fair, the outlook looks good and the fair is fully booked. A guess, however, is that Bauma may not get as many exhibitors as in 2019, but certainly around 3,500 exhibiting companies. A number of companies that PDA has known for a long time have chosen to withdraw from Bauma in favor of their own marketing efforts. A small trend can be discerned that there is a certain resistance to these giant fairs these days. Some feel it is impossible to calculate the costs of the fair, which for many of the large exhibitors become gigantic if you include the stand area, the cost of building advanced stands, catering, travel and accommodation costs for those who work on construction and in the booth, and so forth. Many believe that small niche trade fairs that are geographically limited provide significantly more and that you can then take care of customers in a better way.

Then, of course, there's the pesky coronavirus and its seemingly unending string of variants. At this point, it seems fairly certain that Bauma is a go. Just be sure to have some masks handy, just in case.

www.bauma.de

Some faces and places from Bauma 2019



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Selected list of exhibitors at Bauma 2022

Adamas BV	A1.233	GIPO AG	FN.921/9	Nakayama Iron Works Ltd.	C2.425
AGP EUROPE BV	EWE.06	GÖLZ GmbH	12A.A12.39	National Flooring Equipment	EWE.09
AIRTEC AG	A1.521	GÖLZ GmbH	A1.449	NPK Europe Mfg.s.r.o.	FN.1020/3
AJCE Europe	B5.513	Hammelmann GmbH	A1.425	OilQuick AB	FN.821/1
ALLU Finland OY	FN.1021/2	Hammer Srl	FM.711/4	Okada Aiyon Corporation	C5.438
ANAC MAKINA CO LTD.	A6.519	Heger GmbH Diamond Tools	A1.438	OSA DEMOLITION EQUIPMENT S.R.L	C5.238
Antraquip Corporation	C5.503	Hidromec srl	A4.104	OTTO BAIER GmbH	EWE.02
AquaJet Systems AB	A1.325	HIDROMEK A.S.	FN.919/1	Padley & Venables Ltd.	C2.436
AquaJet Systems AB	FM.711/4	Hilti Deutschland AG	12A.A12.12	PDa Magazine	A1.136
Atlas Weyhausen GmbH	C6.212	Hilti Deutschland AG	12A.A12.6	PDI Magazine	A1.136
AUSA Center, S.L.U.	FM.709/7	Hilti Deutschland AG	A1.313	Putzmeister Holding GmbH	B6.300
AUTEC Srl	FM.807/9	HIMOINSA	56A.A56.9	Remu Oy	B5.408
Avant Tecno Oy	FM.709/3	HIMOINSA	A5.149	RIVARD	FN.926/9
BATMATIC s.r.l.	A1.105	HINOWA S.p.A.	FS.903/8	ROCK.ZONE GmbH	FN.1015/11
BLASTRAC BV	A1.137	HINOWA S.p.A.	C4.325	Rockmore International GmbH	C2.327
BRAUN Rückbautechnologien GmbH	A1.215	HONDA MOTOR EUROPE LOGISTICS	A4.149	ROCKSTER Austria International	B2.214
Breaker SRL	A1.414	HSD Europe GmbH	EWE.18	ROSSI GmbH	A3.308
Briggs & Stratton Germany GmbH	A2.349	Huddy Diamonds s.r.o.	C1.415-11	Rossi S.p.A.	A3.308
Brokk AB	A1.451	Husqvarna Deutschland GmbH	A1.137	Rotar International B.V.	C5.337
Brokk AB	FM.711/4	Husqvarna Deutschland GmbH	A1.320	Rotobec	B5.229
Brokk DA GmbH	FM.711/4	Hycon A/S	FM.711/4	Rototit GmbH	FN.914/9
CAMS SRL	FS.1211/9	Hydraram Deutschland GmbH	C5.349	RUBBLE MASTER HMH GmbH	B2.236
Cangini Benne s.r.l.	C5.149	Hydro-Tec GmbH	A1.403	RUBBLE MASTER HMH GmbH	12B.B12.11
Cangini Benne s.r.l.	FM.711/4	Hyundai Construction Equipment	FM.813A	Saint-Gobain Abrasives GmbH	12A.A12.38
Cangini Benne s.r.l.	45C.C45.9	HYUNDAI EVERDIGM Corp.	FS.1106/2	Saint-Gobain Abrasives GmbH	A1.437
Caterpillar SARL	A4.336	ICS Oregon Tool Europe S.A.	A1.415	SAMEP TOOLS SAS	B5.312
CEDIMA Diamantwerkzeug- und Maschinenbaugesellschaft mbH"	A1.349	ICS Oregon Tool Europe S.A.	12A.A12.29	SARL Tecman	B2.148
CEIN Product GmbH	A3.313/J	Idrobenne s.r.l.	C4.148	SBL Maschinenbau GmbH	B5.315
Conjet AB	A1.509	IDROMECCANICA BERTOLINI S.P.A.	A1.539	SBM Mineral Processing GmbH	B2.249
CONTEC GmbH	01A.A01.3	IDROMECCANICA RAMTEC	C5.415	Scanmaskin Sweden AB	A1.338
CONTEC GmbH	A1.212	IMPACTS GmbH	A1.305	Schwaborn Gerätebau GmbH	A1.314
CONTEC s.r.l.	C1.512	Inan Makina San. Ve Tic. A.S.	B5.412	Schwaborn Gerätebau GmbH	12A.A12.13
CORAZZA SRL	B5.450	INDECO Ind S.p.a.	FM.709/8	SENNEBOGEN Maschinenfabrik	FM.712
CORIMAG S.r.l.	B5.324	Indexator Rotator Systems AB	FM.807/5	Sensor-Technik Wiedemann GmbH	A2.225
Cormach S.r.l.	FN.722/10	Italmeck Srl	C5.409	Sensors & Software, Inc.	A2.613
Cormidi	FN.1015/7	Janser GmbH	A1.102	SHEARCORE	C5.529
Cormidi	C5.149	Kaindl Schleiftechnik Reiling GmbH"	A1.427	Sherpa Miniloaders BV	B5.549
D & A Heavy Industries Co., Ltd.	C5.402	KAMAT GmbH & Co.KG.	A1.334	Sherpa Miniloaders BV	FM.711/4
DAEDONG ENGINEERING Co. Ltd.	C5.303	KAMAT GmbH & Co.KG.	01A.A01.29	SIMA, S.A.	A1.125
Daemo Engineering Co., Ltd.	B5.237	Kaskod-Mtronix OÜ	A1.533	Simex s.r.l.	C5.325
DARDA GmbH	FM.711/4	Keestrack NV	FN.1017/1	Skancraft GmbH & Co. KG	B5.545
Dehaco B.V.	FN.624/7	KEMROC Spezialmaschinen GmbH	FN.1019/5	SOCOMECH S.p.A.	B5.146
DEMAREC Demolition and Recycling Equipment BV	FM.711/4	KERN-DEUDIAM	A1.422	SOCOMECH S.p.A.	B5.145
Di-Star Ltd.	A1.500	Kinshofer GmbH	C5.149	SOLGA S.L.	A1.312
DIAM INDUSTRIES	A1.116	Kinshofer GmbH	FM.711/4	SONMAG	A1.514
Diamond Tools Austria GmbH	A1.515	Kleemann GmbH	FS.1110	Soosan Heavy Industries Co., Ltd.	FN.919/6
DIECI S.r.l.	FS.1109/5	Klingspor Schleifsysteme	A1.541	SPRING S.r.l.	A2.217
Dieckmann, M., Diamantwerkzeugfertigungs GmbH	C2.401	Kobelco Construction	FN.1016	STANLEY Infrastructure	C5.448
DIEWE GmbH	A1.315	KOMATSU EUROPE	56C.C56.9	Steelwrist AB	FN.917/6
DIGGA Ltd	B5.225	KONVERMA Abbruchgeräte	B5.227	Stihl AG & Co.	12A.A12.22
DIGGER - DTR	C2.503	KTEG GmbH	FN.717	Stihl	A1.327
Doosan Bobcat EMEA s.r.o.	FN.817	KUBOTA (Deutschland) GmbH	A4.327	Superabrasive EOOD	A1.213
Doosan Infracore Europe, s.r.o.	FM.711/1	KUBOTA Baumaschinen GmbH	FN.1019/1	Surface Systems & Instruments	A2.622
Dr.Schulze GmbH Diamantwerkzeuge	A1.149	Lehnhoff Hartstahl GmbH	FM.710/2	Tehma SA	A1.128
Dr. Fritsch Sondermaschinen GmbH	A1.522	Leotech S.r.l.	C5.127	TREVI BENNE S.p.A.	C5.424
DYNASET Oy Powered by Hydraulics	FN.1015/15	Liebherr-International	FM.714/2	Trelawny SPT Ltd	A1.130
DYNASET Oy Powered by Hydraulics	B5.416	Liftroller AS	C4.547	Tyrolit Construction Products	01A.A01.33
E-Z Drill, Inc.	C4.746	LISSMAC Maschinenbau GmbH	01A.A01.43	Tyrolit Construction Products	01A.A01.37
EHWA DIAMOND IND. CO., LTD.	A1.223	LISSMAC Maschinenbau GmbH	A1.249	Tyrolit Construction Products	A1.139
Elektrowerkzeuge GmbH Eibenstock	12A.A12.36	MAEDA SEISAKUSHO CO., LTD.	FS.1003/1	URACA GmbH & Co.KG	A1.248
Elektrowerkzeuge GmbH Eibenstock	A1.537	Mantovanibenne s.r.l.	FN.917/2	V. Broendum A/S	A1.114
EmiControls	C5.336	MB Dustcontrol BV	C5.537	Von Arx AG	A1.112
engcon Germany GmbH	FM.708/3	MB S.p.A.	FN.821/5	VTN EUROPE SPA	B5.413
Epiroc Deutschland GmbH	FS.1208/1	MB S.p.A.	C5.215	Wacker Neuson SE	FN.915
EURODIMA GmbH & Co. KG	A1.402	MBI B.V.	C1.140	WAKRA Maschinen GmbH	A1.301
Euromecc s.r.l.	FS.907/5	MBI Deutschland GmbH	FN.917/2	WIDECUT CO., LTD.	A1.126
Fachverband Betonbohren und -sägen Deutschland e.V.	A1.138	McCloskey International Ltd	FS.1211/1	Wimmer Hartstahl GmbH & Co KG	A6.113
FARESIN INDUSTRIES S.p.A.	FS.1208/2	MCS Global Ltd	A2.410	Wimmer Hartstahl GmbH & Co KG	56A.A56.11
Fast Verdini S.R.L.	FS.905A/1	MCS Mobile Control Systems SA	A2.540	WLP SYSTEMS SRL	C5.410
FLEX-Elektrowerkzeuge GmbH	A1.319	MECALAC	FM.714/1	Xcalibre Equipment Ltd	C1.136
FRUTIGER Company AG	B5.224	Meijer Diamond Tools BV	A1.531	Yamamoto Rock Splitter Limited	B5.505
Geith International Ltd.	C5.516	Messersì S.p.A.	FN.1018/2	Yanmar Construction Equipment	FN.1017/2
GSSI, Geophysical Survey Systems, Inc	A1.512/1	Mikasa	FS.1013/1	Yanmar Europe B.V.	A4.425
		MIKASA SANGYO Co., Ltd.	FS.1013/1	Zeppelin Baumaschinen GmbH	FM.60B.3
		MONTABERT SAS	C5.425	Zeppelin Baumaschinen GmbH	B6.106
		MotoCut Oy	C5.542	Zoomlion Heavy Industry Science	FS.905/2
		MultiOne S.r.l.	FM.714/9		



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The Orange Evolution: Husqvarna Brand Integrates Blastrac and Diamatic Surface Preparation

Husqvarna Construction announces plans to further consolidate brands in the surface preparation segment. Over the coming years, the recently acquired Blastrac and Diamatic products, services, and solutions will be rebranded as Husqvarna and integrated into the global Husqvarna offering.

In January 2021, Husqvarna completed the acquisition of Blastrac, a leading provider of surface preparation equipment and solutions for the global construction and remediation industry.

"We have now built one strong team with the commitment to deliver the best possible experience to our broad range of customers," says Stijn Verherstraeten, Vice President Concrete Surfaces & Floors, at Husqvarna Construction. "With our combined expertise and our wider offering we are ready

to serve our customers and shape the surface preparation industry for tomorrow."

The additional offering will considerably enhance the existing Husqvarna surface preparation portfolio by bringing advanced shot-blasting, scraping and scarifying solutions to Husqvarna customers and partners.

In turn, Blastrac customers and partners will gain access to adjacent products such as compactors, concrete placement

preparation portfolio and will further invest in innovation leadership over the years to come to make sure our customers can always count on us to complete their work in the most productive, sustainable, and safe manner."

The first wave of rebranded Blastrac and Diamatic products will be launched this summer, and will further shape and complement



equipment, sawing and drilling equipment and demolition robots as well as a wide service offering.

"We really look forward to giving our customers access to the best and broadest surface preparation range in the industry – paired with what is probably the most competent and passionate team and all of this under one strong brand," says Verherstraeten. "We will build on the combined surface

the Husqvarna offering for floor grinding, scarifying and scraping. The second wave, scheduled for spring 2023, will include shot-blasting solutions and associated dust extractors.



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FS400 HUSQVARNA FLOOR SAW

A compact and easy to handle machine, offers great stability for making large cuts of concrete and asphalt.




HUSQVARNA DIAMOND BLADES


Offering high cutting speed, plus durability, versatility and strength. In addition to concrete, they are ideal for cutting asphalt, marble, gravel and many other materials.





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 <https://www.youtube.com/user/HusqvarnaCP/>

www.husqvarnacp.com

www.husqvarnacp.com/latam/

www.husqvarnacp.com/br/

Five Trailer Sizing Tips for Excavators

By Troy Geisler, Vice President of Sales & Marketing, Talbert Manufacturing

Selecting the right excavator isn't a decision to be taken lightly. Research is required to find the machine that fits an operation's needs. It's a long process, but the end result is, hopefully, a machine that will safely increase productivity for years to come. Selecting a trailer to transport an excavator is an equally important decision with just as many variables to consider. Here are five tips to keep in mind when sizing a trailer for an excavator.

1. Equipment Weight and Dimensions

The first step in sizing a trailer for any hauling job is determining the weight and dimensions of the load. Start by determining the length, height, width and weight of the machine. Be sure to keep in mind that the information on the spec sheet might not include the dimensions and weight with added accessories. When making initial calculations, ensure a suitable truck to handle hauling the excavator before moving on to the trailer. A 3-axle tractor and a 4-axle tractor will have different hauling capabilities.

Excavators have some special considerations. Certain machines have adjustable widths for Operation or Transportation mode. Be sure to figure out which mode will be used during transport as it may take time to make the necessary adjustments to convert between the two. For safety reasons, one half of the track width must be on the deck, excluding the outriggers. While the standard 8.5-ft (2.6m) trailer might work on paper in Transport mode, one must be honest in how trailers will actually be loaded from job to job. Be sure to keep this in mind.

The boom is another piece that requires special consideration. Operators need to consider which boom is required, as there are various available lengths, where the boom will sit on the trailer and how it will be cradled. A low-enough position of the boom is critical for keeping the load within height restrictions. Some top-tier manufacturers offer customizations such as a rear bridge design that eliminates interference with boom placement and makes transportation safer and easier. After determining the weight and dimensions, it's time to look at trailer deck designs. Manufacturers usually offer three deck configurations — flat, raised center and beam. Determining which one will be the best fit is a question for the professionals, as there are pros and cons to each. Custom trailer manufacturers have the experience and knowledge to determine what style would be best overall. While the primary focus might be on the excavator, a trailer often hauls a variety of types of equipment. Backhaul equipment should also be included in calculations. An expert can determine the best trailer to meet all hauling needs. Here's a brief overview on deck designs to get started.

Flat — This is the standard deck design. It offers the most versatility for moving more than just excavators. However, it also has the highest deck height and might not be ideal for taller excavators.

Raised Center (RC) — This deck offers a lower deck height than a flat deck. Not all excavators will fit nicely over the raised center, though, and extra blocking might be required to make sure the equipment sits safely on the trailer. This reduces efficiency when loading and unloading.

Beam — Equipment straddles a central beam with this deck design, meaning it has the lowest ground clearance of the three. The main drawback is the lack of deck for accessories or smaller components.



There are lots of variables when it comes to finding the right trailer for hauling earthmoving equipment.

2. Trailer Capacity Rating

While knowing the overall weight of the excavator is imperative, it is also important to know where that weight is concentrated. An excavator might have a 10-ft (3m) track, but all of the weight might be in the 8-foot span between the front idler and the final drive.

Note that the length of deck calculated in the capacity rating varies between manufacturers. One trailer might need the entire deck length for that 50 tons, while another handles that same weight in half the deck length. So, if the majority of the excavator's weight is concentrated in 8 or 10 ft (2.4 or 3m), a trailer with a half deck load concentration rating offers the best solution. Failing to pay attention to how the capacity rating is calculated can lead to overloading the trailer, which can result in stress fractures and ultimately trailer failure.

3. Loading Configurations

Today's trailers offer a variety of loading configurations. While tag-a-long trailers that unload off the back are an accepted option for small excavators in tight spaces, safety can be a concern. Driving an excavator over the back of the trailer is no easy feat and requires a careful and experienced driver to prevent damaging the trailer and minimize the risk of tipping the excavator. Removable goosenecks reduce the safety risk by eliminating the need to drive up and over the trailer axles. This configuration saves time, hassle and expense while also extending the life of the trailer. However, keep in mind that a removable gooseneck requires ample space for loading and unloading.

4. Regulations

Knowing where a trailer is headed is as important as knowing what it's hauling; this especially true when hauls extent across international borders. Established, densely populated areas, such as those found across the European Union, present many difficulties for heavy-haul operators. Roads and bridges originally designed to carry lighter vehicles — some dating all the way back to horse and carriage days — present many challenges for hauling modern equipment. Though they have been maintained and reinforced for modern transportation needs, they are not necessarily designed for the weight and size of the extra-large loads required for certain hauls. Even those built more recently might have the weight capacity, but not the space to safely maneuver large equipment around tight corners. Correctly sizing a trailer that allows the most capacity with the smallest profile will increase an operator's options.

And, while not directly related to sizing a trailer, operators also need to be aware of the regional and language borders when hauling internationally. Each country has their own size and weight regulations. It is important to check regulations and secure the required permits for each region of operation. This might require communication in several languages, which can increase difficulty and frustrations. In the end, a very long haul might require significant route planning to ensure sufficient maneuverability and weight allowances, dozens of permits for each region traversed and a team member that speaks the local language. Being prepared beforehand will limit downtime on the road. On the other end of the spectrum, operators face difficult road and infrastructure conditions and minimal government oversight in less developed regions. In these cases, operators

must use their best judgement to ensure safety for themselves and those around them. Furthermore, the government may hold them accountable for any damages or mishaps. This might mean investing in a trailer with an industry-leading safety factor that will be able to take the stress caused by rough roads or one that offers heavier axles that are stronger and will minimize maintenance. Working with experienced manufacturers and organizations like the Specialized Carriers and Rigging Association and their international counterparts will ensure a wealth of knowledge and expertise when it comes to making sure trailers and loads are safe and compliant for each area of operation.

5. Trailer Construction

Not all trailers are created equal. It's important to consider the quality of a trailer, not just the price tag. Working with a custom manufacturer offers the best results when it comes to safety, value and peace of mind. A trusted manufacturer will work to understand the client, not just the load. They will consider not just the excavator, but everything the client needs to haul, the territories of operation and the specific challenges they face. The manufacturer will use that information to design a trailer that offers maximum flexibility, versatility and strength.

www.talbertmfg.com



Determining which deck configuration will be the best fit is a question for the professionals, as there are pros and cons to each. Custom trailer manufacturers have the experience and knowledge to determine what style would be best overall.



Working with an experienced manufacturer will ensure a wealth of knowledge and expertise when it comes to making sure trailers and loads are safe and compliant for each area of operation.



Removable goosenecks reduce safety risks by eliminating the need to drive up and over the trailer axles. This configuration saves time, hassle and expense while also extending the life of the trailer.

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Mecalac Launches Zero Emission Eco System for Urban Worksites

Climate change and the resulting need to reduce CO2 emissions have become a major global challenge. In recent years, many construction equipment manufacturers have presented electrical products to limit CO2 emissions. However, these only provide a very partial answer, as they are currently limited to small machines (e.g., 1.5t mini excavators) that mostly only assist larger diesel-powered machines. Current solutions typically do not allow a full day of work on site without two battery recharges. Thus, the switch to electric vehicles has not been seamless. Mecalac has carried out a major R&D program, leading to the launch of a complete zero emission eco system for urban worksites. With these complementary products, all earthmoving operations (digging, loading, and transporting) can now be carried out with emission free machines on a scale the company says has never before achieved.

Right size for urban worksites

Mecalac believes that the current market offering of mini electric machines is unable to carry out urban construction jobs on their own. Mecalac's challenge was therefore to be the first manufacturer to develop a full range of medium sized products consisting of the e12 excavator, the es1000 swing loader, and the ed6 dumper. Mecalac believes that the main reason for the absence of medium-sized

electric machines on the market is the optimization power management to ensure sufficient autonomy. To overcome this challenge, Mecalac says it has made a technological breakthrough on the hydraulic distribution system, as well as on the energy management of auxiliary systems (e.g. heating and air conditioning) to drastically reduce energy consumption without compromising autonomy and performance. In addition, the way of driving that operators have adopted behind the steering wheels of combustion engine machines is not always compatible with optimizing battery performance. For example, when the throttle pedal is pressed, all the power of an electric machine is instantaneous, unlike combustion engine machines. Mecalac has therefore configured the human machine interface so that it reacts in an optimal way to preserve autonomy and guarantee coherent behavior.

Revolutionary approach to onsite charging

Mecalac has also developed the M-Power as a mobile high power supply solution. With its 300kWh storage capacity, it replaces traditional diesel generators by providing a battery charging solution anywhere. Mecalac believes that this electric ecosystem is a game changer that enables a drastic reduction in CO2 emissions on construction sites. For example, three Mecalac zero emission machines working together on the same urban worksite, save an average of 64t of CO2 that their combustion engine equivalents would have emitted over a year. In addition, Mecalac's zero emission offering is also a response to limiting noise pollution and now offers new capacities for working inside. Mecalac's new e range and its onsite battery charging solution have been developed by the company to pave the way for smart, clean, and silent worksites.

www.mecalac.com



New Revotruck from Mecalac

Almost one third of transport accidents on construction sites occur on dumpers. This is mainly due to the front load obstructing visibility when driving forward, exposing drivers to major accidents. Based on Mecalac's user centric innovation process, the company has created a new type of vehicle for smarter and safer material transport—Revotruck. With Revotruck, operators can now rotate the entire cab at the touch of a button to keep their vision and focus on the job. The exclusive chassis with central oscillation ensures stability and traction in all conditions. Designed for ease of use and accessibility, Revotruck is designed to make material transport smarter and safer.

The new development is designed to provide the best working view without the operator physically having to maneuver due to the fully rotating cab of the Revotruck. The "infinite" cab positions open up visibility in all directions, allowing maximum concentration for the drivers on the job. Revotruck has been developed to revolutionize the way to work with a dumper, further enhancing operator safety and well-being. As a result, drivers can constantly maintain the correct body posture and help protect themselves against back problems. Additionally, the machine automatically adapts its behavior to the actual position of the cab (e.g., driving direction, speed, steering). This installed intelligence makes the Revotruck an intuitive and safe transport solution. Inspired by slope tractors, the Revotruck delivers exceptional stability. The central linkage between the two parts of the chassis offers up to 18 degrees of oscillation, ensuring permanent stability and traction in all conditions. This unique chassis is completed by four equally sized wheels with a switchable steering mode (e.g., front steering, all wheel steering, and crab steering) that opens up possibilities for working with superior agility in the tightest spaces. The result is a revolutionary product that combines visibility from the rotating cab with what the company says is outstanding stability thanks to its unique chassis. Associated with ease of use and accessibility, Mecalac claims that the Revotruck takes safety and well-being on the jobsite to a new level.

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Demtech India and Convention Set for

After the success in November 2019, Indian Demolition Association has decided to hold its second annual Demtech convention and trade show next fall.

In November 2019, the first Indian demolition tradeshow, Demtech, took place in Mumbai, India. The event coincided with the organization of the country's first demolition association. The event was seen as major success being attended by more 250 people, with many speakers covering international subjects of interest. Event sponsors included Volvo India, Epiroc, Hilti, Brokk, Aquajet Systems, Sennebogen, Husqvarna, Edifice, Pentrunder, Shearcore, Kemroc, Kobelco, and Tyrolit. They were joined in the exhibit hall by Trevi Benne, Rotar, Demarec, Schwing Stetter, Hydrotec, Philtec E & C PTE, SDT Sanwa, Indo-Spark, Terex, and Wirtgen Group. The next annual convention was planned for 2020 but was put back due to the coronavirus pandemic. The IDA board of directors has met regularly over the past three years, organizing digital webinars. At a board meeting in June, the IDA board of directors decided the time was right to bring back Demtech, setting the event for September 28-29, 2023 in Bengaluru, Karnataka in southern India. The venue for the convention and tradeshow is White Petals Palace Grounds, right in the heart of the city.

PDA's Jan Hermansson recently spoke to Mohan Ramanathan, managing director of ACT, Advanced Construction Technologies in Chennai, and founder and current IDA president. Ramanathan recalls that in 2019, demolition in the country was really not an industry, but rather "fragmented with mostly foreign manufacturers and Indian contractors." Ramanathan adds that, besides a few domestic tool manufactures, most of the important equipment is imported, which makes the investment high. What's more, very few demolition contractors have undergone formal training, with most learning techniques on the jobsite.

"Demtech 2019 brought some visibility and respect to the business and the convention and tradeshow in itself was the starting point of the Indian demolition industry," Ramanathan says. "Unfortunately, Covid-19 set us back and we lost the advantage of the event and the traction it could have given."



An enthusiastic audience participated in 2019's Demtech India



Sales of construction machinery and equipment is picking up

In terms of sales of construction equipment, and sales in general, India's market was very much down in 2019 and early 2020. Yet from Q3 2020 through last year, sales of machinery started to pick up again, with the sales of spare parts also being good. Ramanathan notes that the Indian government also announced huge spending on infrastructure, and this gave a boost to machine sales in 2021.



"We are very optimistic about sales in 2022," he says. "The main drivers are new highways, high speed railways, ports, and airports. There is also an increase of new production facilities all over as many investors are looking at moving out of China to India."

Ramanathan is optimistic about the future for the Indian demolition industry.

"It actually looks very bright and with IDA we have something very good going," he says. "There are tons of

IDA Annual September 2023



than last time," he says. "The word about the successful meet in November 2019 has been spread well which will attract an even bigger audience."

Ramanathan also hopes that even more international manufacturers will exhibit at the Demtech trade show. He welcomes manufacturers to become sponsors of the event and the sponsorship program has already started up. There will also be an even greater opportunity for exhibitors and sponsors to make presentations at the convention. As in 2019 PDA and PDI Magazines will be the official partner of the convention and the tradeshow.

www.indiandemolition.org
www.demtech.in



infrastructural projects in the loop thanks to the governmental spending on infrastructure in the country. There are also a number of modernization projects on production plants that also will generate a lot of jobs."

In terms of contractors working in demolition and advanced concrete cutting, the numbers have not changed that much during the last two years. According to Ramanathan, there are around 10 large demolition contractors, approximately 200 medium to large contractors, and 500 or so smaller companies spread across the country. Prime Minister Narendra Modi recently told the BRICS Business Forum that India is expecting a 7.5% economic growth rate 2022.

"To deal with the economic problems arising out of the pandemic, we adopted the mantra of 'Reform, Perform and Transform' in India and the result of this approach is evident from the performance of the Indian economy," he said

For that reason, Ramanathan thinks that next IDA convention and Demtech tradeshow are being organized at the perfect time.

"I convinced that we will see even a bigger attendance



Mohan Ramanathan, founder and president of the IDA, Indian Demolition Association.



A major part of the KEMROC product range; the patented EK chain cutter attachments. One example is model EK 100, with moving cutter chains.

KEMROC aims to provide innovative machines and processes for foundation engineering. Many of them will be on display at Bauma 2022.

A major innovation being shown for the first time the new KEMSOLID division, which is focused on the manufacture and development of innovative products and processes for foundation engineering. Core elements of their product offering include the KSI soil mixing excavator attachments. With their moving cutter chain, the attachments penetrate the soil and mix it with a binder suspension material in the same operation. Dense, load bearing, resilient soil-cement structures are produced in-situ to the required size and shape without the need to move massive amounts of material. Another KEMSOLID innovation on display will be the KSI 7000 mixing attachment with its 23-ft (7m) cutter and injection blade mounted on a 30t excavator.

KEMROC's DMW range of double-motor cutter wheels has been extended with the DMW 130 in a modified version for permafrost, soils and rocks with uniaxial compressive strength up to 5,801 psi (40 Mpa). Designed for 18- to 35t carriers, the DMW 130 has an improved method for material discharge as well as more cutting depth. Models EKT 20 (2- 4t), EKT 40 (5- to 10t), and EKT 60 (10- to 17t) expand the EKT range toward lighter carrier machines with cost-effective cutter attachments

KEMROC focuses on special foundation engineering with its new KEMSOLID line. Its core product, the KSI mixing attachment, mixes soil with a cement suspension. This results in precisely defined, solid and dense soil-cement structures.

A Variety of New Products from Kemroc



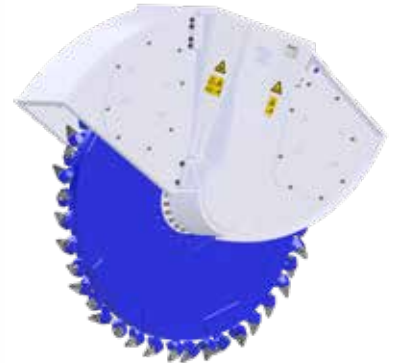
New, convertible, drum cutter EKT 40 drum cutter.



KTR 65 trench cutter with moving cutter chain.



New KRC 140 double head milling machine from the Bull Head Trencher range.



DMW 130 cutter wheel with more cutting depth and improved material discharge



KR120 mixing drum cutter with extension.

The KTR range of trencher attachments from KEMROC is reduced to two models, including the KTR 65 for excavators from 18t to 25 t.

that can be converted into chain cutters. Representing the EK range of chain cutter attachments will be the EK 60, mounted on a 20t excavator.

KEMROC will also display the KRC 140 (20- to 40t) of the Bull Head Trencher range. This attachment for excavating narrow trenches without needing to slew back and forth sideways.

The KRD range of direct drive drum cutters includes the KRD 120 MIX model (25- to 40t) with extension including injection tube for the Mass Soil Mixing process, available for foundation engineering applications. Note that the KTR range of trenching attachments with rotational chain cutter has been reduced to two models—KTR 65 (18- to 25t) and KTR 130 (25- to 35t).

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Profitable Processing with RM Crushers and Screens



Headquartered in Austria and with a production facility in Northern Ireland, the RM Group has been engineering crushers with diesel electric and fully electric drives for 30 years. This know-how is brought together in RM hybrid crushers and screens with RM developing solutions for the electrified and digitized construction site of the future. RM screens are designed and built at RM Group's site in Dungannon, Northern Ireland, which is aiming to increase production. For example, the purchasing teams in there and in Linz, Austria are working much closer together to optimize synergies, while the manufacturing staff has expanded to facilitate additional production shifts. Developments are already bearing fruit. The company has already debuted the RM MSC8500e hybrid screen, and plans to exhibit a new scalper and a new jaw crusher at Bauma.

Climate change is also very much on the minds of RM Group's leaders. The combination of environmental protection and business success has played a key role at the RM Group from the very beginning. Following the launch of hybrid crushers and new hybrid screens, the company is now taking the next step.

Because the RM processing system can be connected to a power grid, purely electric—and, therefore, emission-free operation—is now possible. This opens up completely new application possibilities for tunnel construction sites, inside buildings, and in city centers. And it's hardly surprising that RM Group's processing plants comply with all legal requirements in terms of exhaust, dust, and noise emissions. RM Group's leaders see a trend among jurisdictions toward a larger percentage of machines to be electric-powered, and quiet. One example where restrictions are already in place is in the tourist centers dotting France's Mediterranean coast.

"There are regular inspections to check compliance with noise and dust regulations in our region," says Eric Galgani, one of the managing partners of SARL Galgani in Venice. But there are other reasons why the company purchased an

RM MSC8500e hybrid screen earlier this year. He adds that having a suitable power supply at the company's site in Venice allows all screening to be done with electric power, cutting the company's diesel costs by as much as 25%. "Also, instead of producing three factions at the same time, we can now produce four," Galgani says. "This is not only good for business, but also for conserving nature and our planet." says Galgani.

Effective fleet management with the RM XSmart app

RM XSmart, a fleet management and condition monitoring tool launched in 2021, displays all the essential machine data as an app on a smartphone, tablet, or computer anytime and anywhere. RM XSmart uses real-time machine data to simplify the everyday work of machine operators, workshop managers, rental fleet managers, deployment coordinator, and owners. Operators can monitor fuel levels, reset belt scales, and track tonnages conveniently from their cab with an optional belt scale. The app also records machine utilization data, including run time, operating hours, and tonnages, which can be easily shared with the client or back office.



Rubble Master founder and CEO Gerald Hanisch.



General Equipment Company Offers Bitty Breaker Manual Impact Breaker

General Equipment Company's model 102 BITTYBREAKER™ is a manual impact breaker/tamper designed to provide a simple, inexpensive alternative to jackhammers, sledgehammers, pick axes and other tools. Compatible with a multitude of industry-standard jackhammer tools, the hand-held BITTYBREAKER offers a powerful impact energy to effectively break concrete or frozen ground, cut asphalt, tamp dirt, chop roots, or remove ceramic tiles and brick pavers.

Featuring a lightweight, thin barrel design, the BITTYBREAKER weighs only 21 lb (9.5 kg) and has a Posi-Grip handle for safe, comfortable operation. The internal piston and barrel are constructed of solid steel, helping the tool produce an impressive force of up to 1,450 lbf (1,966 Nm) of energy per blow. An operator can typically complete 10 to 20 blows per minute, depending on the rate of work. A spring-assist tool retainer is included to help prevent damage in the event of a dry fire.

To help it perform a wide variety of jobs, the BITTYBREAKER accepts tools that have a 1.125-in (28.8 mm) hex shank, including those from competitive manufacturers. Several chisel/spade accessories are available directly from General Equipment. An integral tool retention system on the unit helps prevent the tools from falling out during use.

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Brokk Introduces Surface Grinder 530

The new Brokk Surface Grinder 530 (BSG 530) attachment removes materials such as paint and asbestos; surface preparation; and polishing on walls, floors and ceilings in renovation and restoration applications. Compatible with the Brokk 170, 200, and 300 remote control demolition machines, the BSG 530 allows contractors to tackle a range of previously labor-intensive projects up to ten times faster. Pairing the surface grinder attachment with Brokk's remote-controlled operation also offers greater worker safety over manual methods.

Brokk will showcase the BSG 530 at Bauma, outdoor stand FM711/4. The company will also feature its full line of electric demolition robots, and the Atomized Water Mist dust suppression system. Brokk's indoor stand, A1.451, will include the Brokk 70, the new Grapple Saw paired with the Brokk 110, and the Atomized Water Mist paired with the Brokk 170.

"The Brokk Surface Grinder addresses a gap in the surface grinding market where there is a long history of using handheld tools for ceilings and walls," said Martin Krupicka, CEO of Brokk Group. "The Brokk Surface



method of stripping plaster, contaminated material, tile adhesive, and paint from walls, ceilings and floors. The pairing efficiently removes material through constant contact and high pressure on the surface, resulting in a more even, consistent removal over large areas that is not possible with handheld grinding tools.

The attachment can reach 517 lbf (2,300N) of grinding pressure for wall applications and 247 (1,100N) of grinding pressure for ceiling applications. The BSG 530 also has a feature that continually adjusts the grinding pressure to keep it constant. Along with substantial efficiency and quality gains, a Brokk robot and the surface grinder attachment offer greater operator safety and comfort than handheld tools. Thanks to the remote control, operators can position themselves a safe distance from the removal site, reducing the risk from falling debris and missteps on scaffolding or ladders. They can also distance themselves from dust, especially in decontamination applications. In addition, remote operation eliminates worker strain from the constant vibration of handheld tools. Reducing wear and tear on workers' bodies helps prevent long- and short-term injuries that affect productivity. To further ensure safety when contractors remove hazardous material, Brokk offers an optional dust extraction system with the attachment to capture harmful particles. With the addition of the optional tools, the BSG 530 also can be used for surface preparation, creating a texture ideal for bonding new material. Brokk also offers optional tools for polishing concrete and natural stone on walls, ceilings and floors. The BSG 530 has an operating weight of 507 lb (230kg) with a length of 55 in (140cm), a width of 25 in (64 cm), and a height of 26 in (65 cm).

www.brokk.com



Grinder offers a faster, safer option than manual methods, especially when dealing with hazardous material. We see huge potential for concrete renovation in buildings from the 1970s when asbestos was often used for insulation and fire resistance."

The BSG 530 is fully remote-controlled through the Brokk control box, offering an automated



New Products From Epiroc

During 2022, Epiroc has focused on automation, digitalization, and data-driven productivity development to help customers work smarter, maximize the latest technologies, and develop new ways of raising efficiency while improving sustainability. Many of these products will be on display at Bauma in October.

New V Cutter model

In April, Epiroc launched its V-shaped drum cutter for working with rock, concrete walls and surface profiling, trenching, soft rock excavation, frozen soil excavation and demolition. A patent-pending solution, it has been rigorously tested in all these applications. By mounting the drums in a V-shape enables a cut with a flat base and no material is left untouched between the drums. A regular drum cutter must move from side to side to create an even trench, an approach that causes extra wear on the carrier arm. The V Cutter can achieve the same result by just going straight. It basically works like a bucket, which makes it easier to use, friendlier for the carrier and a lot less energy and time consuming.

A seemingly simple solution with extraordinary effectiveness, the V Cutter is said to provide energy savings of up to 40%. In addition, compared to a chain cutter, the V cutter is said to save more than 40% on picks and up to 50% on maintenance time.

As a result, Epiroc says that investment is up to 25% lower than for a chain cutter and the lower weight makes it possible to use a smaller carrier. The latest addition to the range, a smaller model suitable for carriers of 15t-28t, will be unveiled at Bauma.

Hydraulic breaker working tools on demand

Epiroc has now added a "tool on demand" concept to its supply of working tools for hydraulic breakers. Sometimes standard working tools are not enough as special applications often require a longer or shorter working tool or a special material. For example, high-temperature applications require tools made of heat-resistant vanadium steel, while other applications may require longer tools or special shapes. Epiroc says that customers can now order exactly what is needed, in the size required, with a variety of tool tip geometries. "Tool on demand" offers high flexibility based on applications or customer preferences, with all lengths and shapes being available.

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2020 Attendee Britton Lawson,
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After a Four-Year Wa

Can't make it to Bauma? Consider attending another European trade show—Sweden's DEMCON.

After four long years, it is once again time for the DEMCON to be held November 24-25 at Infra City in Bredden north of Stockholm. Despite taking place on the heels of Bauma just a month earlier, organizers report that exhibit space is fully booked. The only concession to the late date is a limited number of outdoor stands; November in Sweden usually means staying inside as much as possible.

Exhibitors included many familiar names, as well as some first-timers such as Flex Scandinavia, which markets a range of different machines and aids for drilling, grinding, and polishing; and Moldex Nordic, which sells various types of protective equipment for work in construction and remediation.

Rototilt is also a first-time exhibitor as a manufacturer of tiltrotators and quick-coupling equipment for demolition tools. Also new is Falch, a German manufacturer of equipment for water jet and cleaning with high-pressure equipment. Two Indian diamond tool manufacturers will be on hand—Dee Tec and Hi Tech Tools & Technologies, as well as the Indian Demolition Association. Also new at this year's fair is Fieldly, which develops software programs for concrete cutting contractors to facilitate daily work.

Another new exhibitor for DEMCON is the BIG Group, which markets the new Dimas diamond tool brand in Sweden. They also have a range of other products for demolition, concrete cutting, remediation and grinding and polishing of concrete floors in their range. Another first-time exhibitor is Blinken Tools, which markets US-based GSSI's concrete scanning equipment.

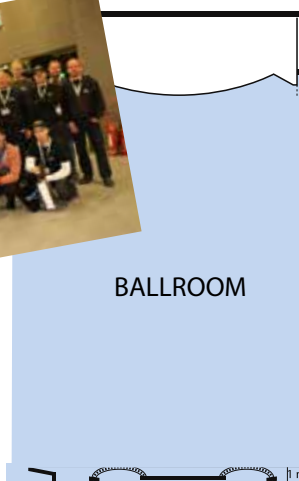
DL Maskin is also exhibiting for the first time and selling Montabert and Rotar's range of hydraulic hammers and hydraulic tools for demolition, recycling and scrap handling. Also new to DEMCON is Kendrill, which specializes in the rental of demolition robots, concrete cracking and concrete cutting equipment in the Nordic region. DEMCON will also welcome Powertools, which sells different types of cracking equipment for concrete, stone, and other services; and Leif Karlsson Entreprenad, which, among other things, markets Italian Italdem scrap shears and demolition equipment.

As usual, the trade fair DEMCON is supported by the trade organization Byggnadsberedning, a joint trade association for Sweden's demolition workers, cleaners and concrete cutters. Abbreviated BFB, they will gather for an autumn meeting in connection with DEMCON. The show is also supported by IACDS, and the European Demolition Association.

DEMCON party and awarding of the Swedish Demolition Award

According to tradition, an industry dinner is arranged on the Thursday evening of the first show day called the Demconkalaset. The dinner consists of both manufacturers and entrepreneurs who have the opportunity to come together in a more relaxed manner. Even those who don't sign up for the dinner can attend the pre-event networking session.

Demconkalaset is, as usual, the place where the Swedish Demolition Prize is awarded. However, the jury for the Demolition Prize does not reveal who has been nominated, but says as much that there will be just over 10 companies that will receive the Swedish Demolition Prize in 2022. The Swedish Demolition Prize is awarded by the magazine Professionell Demolering in collaboration with BFB.

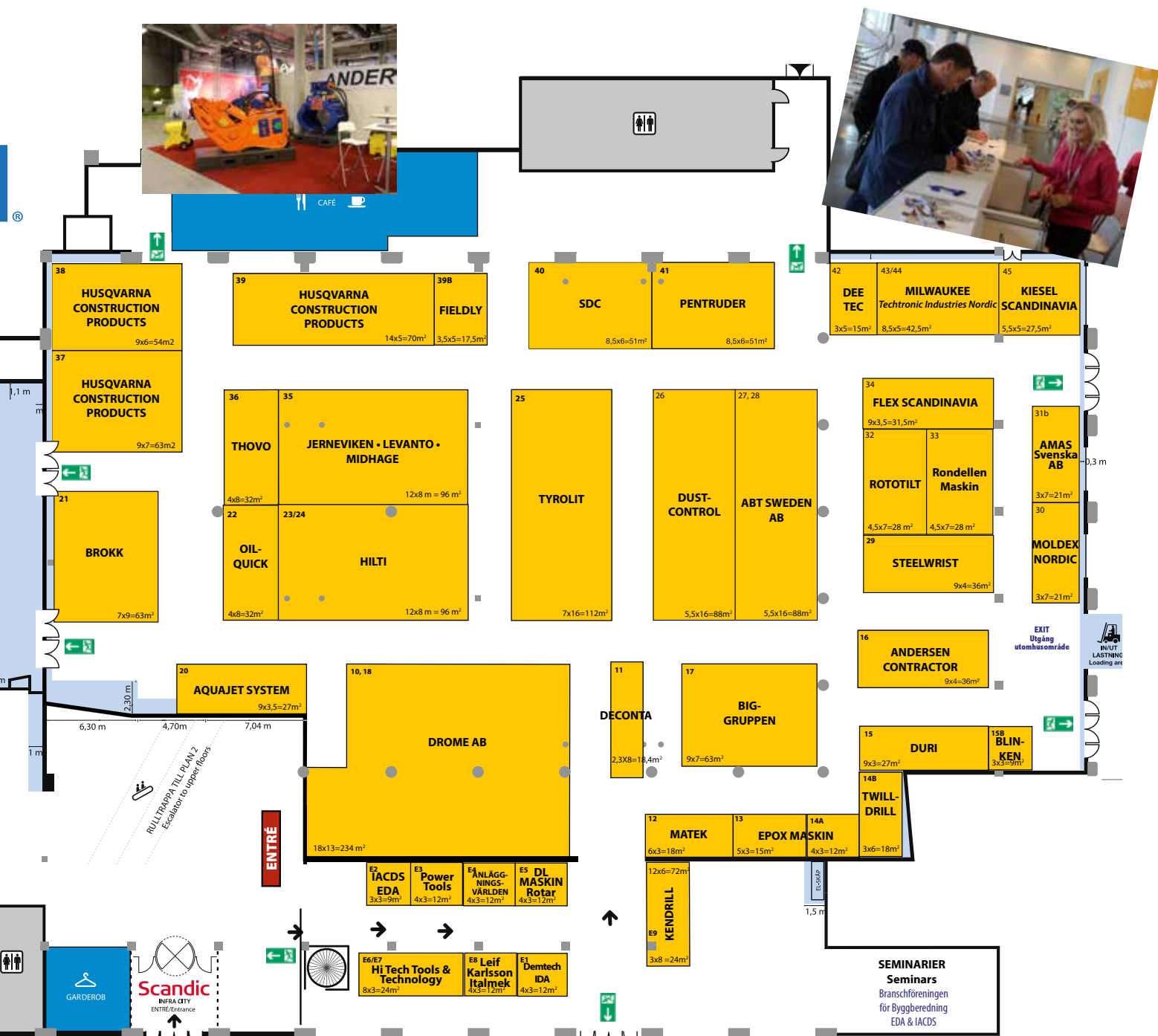


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Casey-Bertram to Demolish Supersized Building

The day after a March fire engulfed a large distribution center, local authorities called Casey-Bertram to provide support to the fire department. The Indianapolis-based demolition contractor traveled to Plainfield, Indiana, to drag semi-truck trailers away from the 1.1-million ft² (102,200 m²) building.

After the fire was extinguished, Casey-Bertram was tasked with the teardown of several concrete precast panels near key utility systems. Removing the precast panels was challenging for two unique reasons — they were 47 ft (14.3m) tall and as close as 30 ft (9.1m) to critical utility systems that supported an adjacent distribution center with more 1,000 employees. These utility systems included two 300,000-gal (1.1 million cm) water tanks, a three-story battery recharging station for the centers' forklifts, and multiple electrical transformers.

It was imperative to remove the precast panels within their footprint to avoid disrupting operations at the nearby distribution center. Casey-Bertram's co-owner and president Scott Casey knew

he needed a high-reach excavator to meet the unique challenges of this job.

Casey contacted Company Wrench, a specialty equipment dealership headquartered in Carroll, Ohio, to inquire about renting a high reach excavator. The company offers a variety of high reach fronts ranging up to 100 ft (30.5m). Doyle Burgess, Company Wrench's territory sales manager, recommended a Kobelco SK300 50-ft (15.2m) high-reach front with a LaBounty multi-demolition processor, MDP 20R.

Once the high reach excavator was delivered, Casey-Bertram initiated its



plan to safely remove precast panels from the building within their footprint. This process required all four machines and metal bracing to ensure the panels would collapse as intended. The high reach used the MDP 20R to crush the top concrete segments of the panel while the bracing held the panels in place. The other three machines used their buckets to support and reposition the bracing as the high reach continued to make cuts with the MDP 20R.

Once debris accumulated on the ground, Casey-Bertram's excavators used shears, processors and buckets to clear a path to allow the high reach to continue moving forward. The process took about a week, avoided damage to the utility systems, and did not interrupt the operations at the neighboring distribution center.

It was ultimately determined the entire building needed to be demolished due to the damage caused by the fire. The next step is to remove the remaining precast panels, which span approximately one mile (1.6 km) in length.



Tyrolit to Show Latest Developments at Bauma

At Bauma 2022, Tyrolit will provide an overview of its comprehensive product line. The exhibition's highlights comprise of a number of upgrades within Tyrolit's core product range for concrete drilling and cutting, specifically core drilling and products for sawing walls, floors, and wire. The new developments range from upgraded specifications and new diameters of wall and floor saw blades to the new DDL-HH Fast Cut dry drilling bits, to the current assortment of floor saws. The WSE1621 and ATEX-certified SB wire saws will also be part of the exhibition. And in the outdoor demonstration area, Tyrolit will join Lissmac in showcasing the PC4505 Bump Grinder.

New developments for smaller drilling, cutting, and grinding jobs will also be part of Tyrolit's exhibit. Featured products include two new angle grinders, the new DHE32 drill hammer, the HGE125 concrete grinder and the HCE125 wall chaser. Also on display will be the new DC-Cut All universal saw blades for petrol and electric grinders, the entire, revised dry cutting range as well as innovations for tile sawing. A special highlight will be the "Rescue" blade, which has been specially developed for use in rescue operations and which is now also available in large diameters.

Visitors will also get a preview of Tyrolit's in-house product range for floor grinding, currently under development. In the future, customers will be able to choose from a wide range of coordinated products. In addition to classic floor grinders and corresponding tools, the assortment will also include chemicals, various machines for removing surfaces and coatings, special vacuum cleaners, and polishing tools. The offering at Bauma includes newly developed floor grinding machines such as the FGE515 floor grinder for floor preparation and polishing, as well as a range of new metal bond floor grinding shoes.

Another focus area at the exhibition will be new developments in digitalization. Tyrolit's "MoveSmart" technology is a fleet

The "Rescue" blade is a specially developed blade for rescue operations.



Tyrolit will present a number of product developments for smaller drilling, cutting and grinding jobs.

management platform that can be used to intelligently plan the use or maintenance of the customer's machinery to get the most out of the machines. The system specially generates QR codes that can be used to submit service requests and machine inspections directly, and optimizes the service area. In addition, the platform now works with GPS trackers and Bluetooth tags for locating and monitoring machine activity.

www.tyrolit.com



With the innovative "MoveSmart" technology, the use and maintenance of the customer's machinery can be planned intelligently.

MoveSmart
TECHNOLOGY
powered by ToolSense

Developed in collaboration with Lissmac, the PC4505 Bump Grinder will be presented at Tyrolit's outdoor demonstration area.



The innovative gear concept of the new FGE515 floor grinder is said to provide the highest level of productivity, while at the same time requiring minimal maintenance.

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Lars-Göran Nilsson is one of the founders of the Conjet AB, retired at the start of 2021. PDa Magazine's Swedish sister publication, *Professionell Demolering*, was founded a few years after Conjet AB was formed, and has followed the company's development for many years, especially as its equipment has become well-known in the US.

Nilsson grew up in Härnösand, in the north of Sweden, where his grandfather was an entrepreneur and ran a company with all types of construction machinery and also a crushing plant.

"My father worked for my grandfather during my early upbringing and I got to follow many workplaces," he recalls. "Dad later came to work with sales of construction machinery and in that way an interest in the industry was created."

When the family moved to Stockholm in the mid-1960s, Nilsson studied mechanical engineering at high school and studied economics at Stockholm University. At age 17, he worked one summer as a mechanic in Doncaster, England, to improve his English. A few years later, he spent a year in the US where he worked for two different Caterpillar dealers in Pennsylvania and New Jersey. In 1980, Nilsson got a job at Berema, a subsidiary of Atlas Copco, where he worked with international sales of motor drills.

"Working at Berema was fun and educational and a developing part of my working life," he says. "I worked largely in North Africa, mainly in Algeria, Tunisia and Morocco, which are Arabic- and French-speaking countries. To be able to work there, I got help from Berema to develop French by studying for a time in French Aix en Provence."

In 1985, Lars-Göran participated in an internal development course for employees within the Atlas Copco Group. He then met a future colleague, Nils Biström, who suggested that he apply for a job as product manager for a new technology called hydrodemolition. Something he had heard about but did not really know what it was about. As it turned out, the Swedish Road Administration's bridge section realized that they could no longer use traditional jackhammers to remove bad concrete on damaged bridges as they created micro cracks in the concrete. They then sought a new technology that did not damage the remaining bridge structure as the striking methods did.

The agency therefore formed a development group consisting of Atlas Copco as machine developer and manufacturer and ABV, which today is NCC a contractor that could perform the tests that needed to be carried out and actual contracts for bridges that needed to be repaired. That was the origin of the Conjet brand.

Interest in hydrodemolition technology did not grow at the pace that Atlas Copco had hoped for. In 1989, Atlas Copco decided to reduce diversification, which resulted

Years Servicing the Global Hydrodemolition Industry



Lars-Göran (left), together with some clients, in his right environment renovation turbines in a Swedish power plant using hydrodemolition techniques.

in the sale of products that had nothing to do with the company's core business. That includes hydrodemolition technology.

Management buyout becomes Conjet AB

Nilsson and three colleagues—Kent Fahlström, who also worked with Conjet equipment; Carl Strömdahl; and Bengt Grinndal, who worked with a similar product, Aquabrasive—were offered to buy the two products from Atlas Copco in a management buyout. On January 1, 1990, Conjet AB was formed.

Initially, Conjet's market was mainly concentrated in the Nordic countries, Italy, Switzerland, the US, and Canada. Over the years, the use of water treatment equipment increased in Europe and North America, as well as in Japan and the Middle East. Customers were mainly specialist contractors and it was rare to work with a main contractor. The robots were usually driven by a special team that the company they sold to selected to be responsible for the work. Conjet trained the customers' operators and after the training they were certified to drive and maintain the machine.

"In the beginning, we usually sold both robots and pumps," Nilsson says. "As the technology became known, the pump suppliers themselves offered pumps. In addition, there were already companies that carried out industrial remediation work and that cleaned large industrial facilities in, for example, the pulp industry, and these customers already had pumps. By starting to work with water formation as well, these contractors were able to get a better utilization rate of their pumps."

This led to an increase in the market, as many pure water treatment contractors began working with industrial cleaning to get a better degree of utilization of their pumps, especially in winter when water treatment was not as active.

During his 37 years in the industry, Nilsson has met a large number of customers all over the world and seen many different types of projects where hydrodemolition technology played an important role. He talks about product solutions where they have had to adapt machines with different accessories and where they have also built tailor-made machines for customers with specific needs. Many of these customers have become personal friends, adding to the satisfaction of having been involved in developing a machine with a completely new technology.

The future

Now that Nilsson has left his active years in the work with hydrodemolition technology, how does he think water formation technology will develop in the future?

"I believe that technology will play a crucial role in the next few years as many concrete surfaces on sensitive structures such as concrete roads, bridges, power plants, quays, parking garages and more need to be renovated," he responds. "The water formation technique is undoubtedly the best method for this type of work as it does not damage the remaining structure, which is why the service life increases more than double compared to striking methods. In addition, significantly less concrete is used in a repair than in a new building. This is good for the environment as it has been shown that a large proportion of all carbon dioxide emissions come from concrete production."

Nilsson stresses the importance of getting the message out to structure owners so that they specify the use of hydrodemolition on their projects.

"I know that it works hard for both manufacturers and contractors to get the technology out to more people, so I believe in further growth in the future," Nilsson says. He also believes that the market will continue to be characterized by specialty contractors, but that more main contractors will invest in the technology themselves.

Highway projects also offer an attractive opportunity for growth, he adds, as transportation authorities may invest in technology to do their own route maintenance jobs and thus avoid costly, time-consuming public procurement that takes time and costs money.

Nilsson has no doubts about the future of Conjet, a portion of which was sold in 2019 to external owners who today lead the company. The number of employees has grown threefold since the sale. The powerful expansion that Conjet is currently undergoing has led to a move to a new, larger headquarters and manufacturing facility.

"With the new owners at the helm, they have invested much more in all parts of the company, everything from improving the product to increasing efforts in sales and marketing through new recruitment of staff," Nilsson says, who remains a minority owner and board member of the company. "I follow with excitement the future development that I both believe and hope will develop the company in a positive way."

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Conjet On a S

Hydrodemolition manufacturer Conjet is making strong progress with a 50% increase in sales, a strengthening of human resources, and distributor network. The company also has a new headquarters with triple the production area.

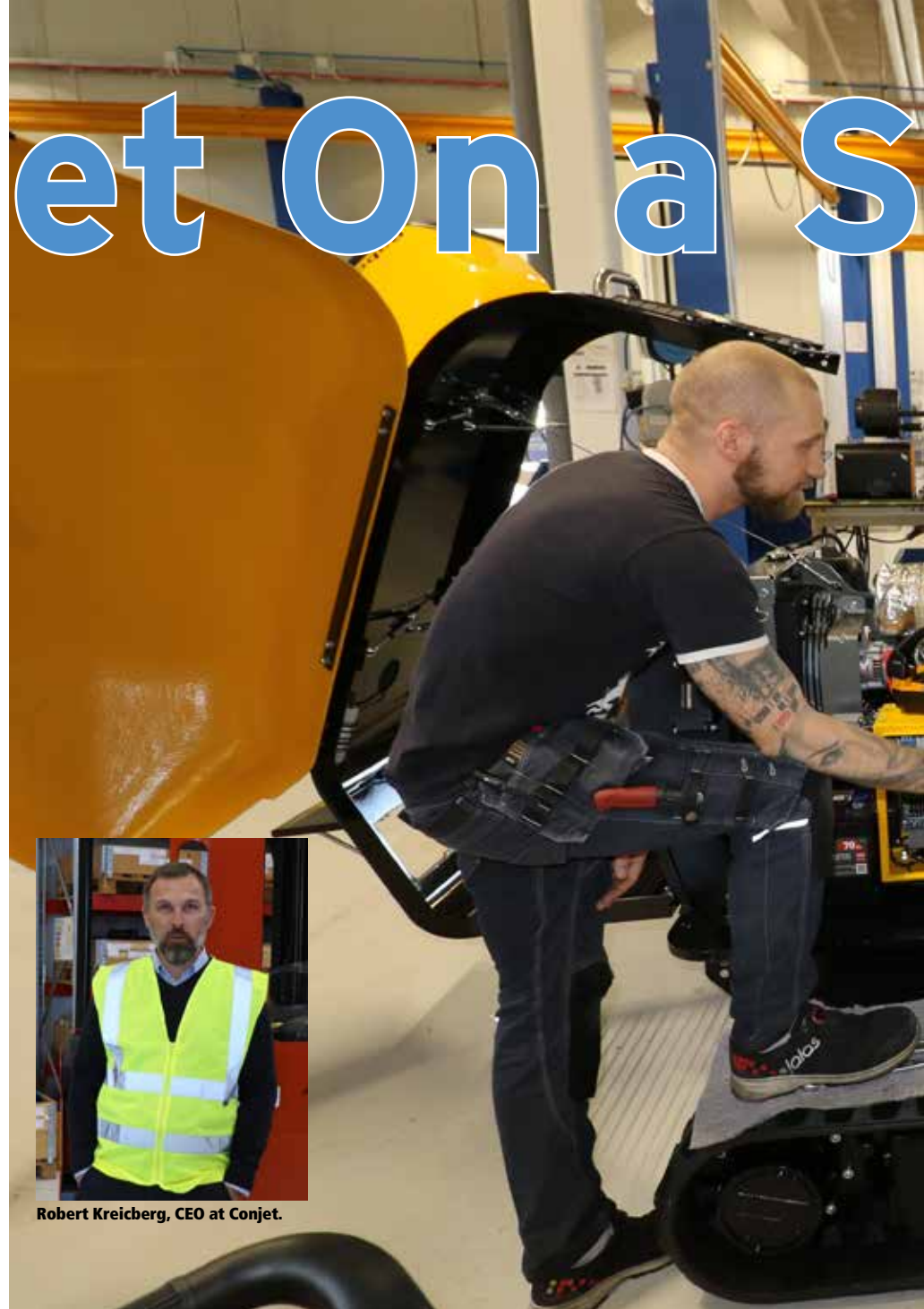
PDa magazine visited Conjet's new custom-built headquarters and manufacturing plant just outside Stockholm, Sweden. The new facilities are three times the size of the old one, with a 19,375 ft² (1,800m²) area for manufacturing, warehousing and service. There are also more than 8,600 ft² (800m²) of offices and training facilities.

"We had a great need to find new and larger premises as we were very cramped in the old location," says Ola Wagner, who became Conjet's chief operating officer in mid-2020.

Conjet's original plan to expand the previous location stalled due to permit delays. The Conjet then more or less stumbled on the new site in the spring of 2021. By the end of the year, the move to the new location began.

"Here, we have a significantly better flow in production, and warehouse management," says CEO Robert Kreicberg. "Everything is more divided, and the premises give us completely different possibilities. We can also grow in these premises."

Most of Conjet's 27 employees are based in Sweden, with three-person team working from the company's North American office in Maryland. Recent additions to Conjet's management team include Ola Sylvan, product development manager; Rebecca Nilsson, marketing manager; Mariusz Stabryla, production manager; Karl Fritz, warehouse manager; and Simon Christensson who is responsible for orders and logistics. Rather new in the company is also. The new production area has been designed to have a natural flow in production that makes assembly smoother. When Conjet first moved into the location, all the traverses connected to the assembly were first installed so that it would be easy to move materials and components. The traverses have a lifting capacity of up to 2,645 lb (1,200kg). Bearings with picking places for the components are conveniently located and allow easy access when needed. There are a total of nine individual assembly locations, with each robot being built on one and the same station from the beginning to a complete machine. But the idea is that when the robots become



Robert Kreicberg, CEO at Conjet.

more modular, that assembly will take place at several different stations. It will also be possible to expand to shift work during periods when demand requires it. Next to the production areas there is also a complete 2,153-ft²

(200m²) service workshop with a demonstration area directly connected outside. There is also a large room for cleaning Conjet machines.

Strong sales increase

Since Gulfstream Nordic Holdings acquired Conjet in 2019, the company has enjoyed strong sales growth. Without revealing specific 2022 revenue targets for the company, Kreicberg characterizes Conjet as a "growth company, and such companies aim to increase every year by at least 20%."

This continued increase is based on the need for concrete repairs around the world. Many concrete structures are severely neglected, not least in the U.S. While many states have tried to catch up with their respective maintenance backlogs, the recently enacted \$350-billion infrastructure bill provides much-needed federal funding for roads and bridges

The Conjet team in Sweden at the new premises south of Stockholm.



Strong Path



The new production facilities in Stockholm improves efficiency and quality.



Planning for new developments.

"The need for concrete repairs is today great all over the world and we have the equipment," says Kreicberg. "It is our ambition to make hydrodemolition the standard for concrete repairs." Kreicberg adds that Conjet has modified its policy over the past two years.



Plenty of space for education and training.

"Our focus today is entirely on building robots and other equipment for efficient concrete repairs, and at the same time establish strong partnerships with pump manufacturers, and manufacturers of water purification system," he says.

In addition to investing in building the company's orga-

nization internally, Conjet is also actively working to review and expand its worldwide distribution network. Ten new distributors have been added, with the company focusing its marketing and sales efforts on Europe, North America, Asia, and Australia.

www.conjet.com



The new service center in Stockholm.

ITALIA DEMOLIZIONI

Chooses Doosan DX380LC-7



From left, Nicola Miceli, owner of A.C.M. and Italia Demolizioni; Ivano Perego, commercial director of Italia Demolizioni; Alessandro Migale, site technical manager of Italia Demolizioni; Ernesto Perego, demolition operator and Pier Francesco Marcotto, Italy Demolition Division manager.

Newly formed demolition contractor Italia Demolizioni purchased several Doosan machines for use on a number of new contracts, the first of which is the demolition of the former Piero Pirelli Institute in Milan.

Founded in January 2022, Italia Demolizioni is owned by A.C.M., a leading regional road construction firm. This connection has allowed Italia Demolizioni to deal immediately with an important investment plan and to build a technologically advanced fleet of Doosan machines.

The company's Doosan DX380LC-7 crawler excavator, a DX380DM-7 demolition excavator, three additional crawler excavators (DX300LC-7, DX350LC-7 and DX210-7), two DX85-7 mini excavators, and a DL250-7 wheel loader.

"We chose the Doosan brand because it is a guarantee of reliable, durable and productive machines," says company director Ivano Perego. "They are true allies for ensuring efficiency and success on every site."

Within a few months of opening its doors, Italia Demolizioni had won several major contracts. "That made it essential to have a fleet capable of providing maximum productivity on each site," Perego adds.

The Doosan DX380LC-7, customized in the blue and orange colors that distinguish the Italia Demolizioni fleet, was chosen for the demolition of the former Piero Pirelli Institute which was built in the 1950s to provide training,

workshops, seminars, and other events for Pirelli employees. Now abandoned, the Institute consisted of a 2-story classroom building and an adjacent structure for practical training. That comprising of a sequence of covered spaces averaging 23 ft (7m) height.

The DX380LC-7, equipped with a standard arm and a demolition grapple, was used for the entire primary demolition of the structure, producing more than 18,000 yd³ (14,000m³) of waste material. In the first phase, the DX380LC-7 tore down the central span structure adjacent to the main building. Then the perimeter walls of classroom building were taken down. This made it possible to produce enough rubble on which to elevate the excavator to easily reach the second floor.

The roof panels were then removed and the perimeter eaves were demolished. Next, the DX380LC-7 broke through the top of the roof to lighten the rafters. These were unhooked one by one from the pillars and then demolished to allow the excavator to enter the building and to proceed with the demolition. Subsequently, the slab between the first floor and the ground floor was demolished in order to completely cross the structure from side to side and complete the entire demolition keeping only the perimeter pillars on the ground floor.

The DX380LC-7, was then joined by the DX300LC-7

excavator armed with a crusher and hammer to take care of the secondary crushing of the demolished sections and a first selection of the various materials. Once this was all complete, the DX380LC-7 took care of preparing the ground for subsequent construction works. The DL250-7 wheel loader completed the work by handling and removing debris, unloading it onto a truck for transportation from site. The efficiency of the Doosan equipment allowed Italia Demolizioni to complete all demolition work in just 17 days.



Twinca Dumpers Are a Shrewd Investment for Limited- Access Projects



Jason Franken, CEO of Super City Concrete Cuttings says that the company's purchase of the Twinca ES-800 dumper has been a shrewd investment for limited access projects. Though developed and manufactured in Denmark, the series of battery driven mini-dumpers has found its way to Australian concrete cutters and demolition companies.

"Our Twinca dumpers are operator friendly and is easy to manoeuvre and operate," Franken says. "Prior to purchasing the Twinca Dumper this type of work was completed with wheelbarrows and a lot of manual labor."

Manual handling tasks need to be risk assessed regularly and providing mechanical controls in place of physical labour has proven to reduce incidents and injuries in the workplace, adds Franken. The Twinca dumper has a load capacity of 1,763 lb (800kg) with superior productivity

to manual labour. One project where the Twinca Dumper showed its stuff required the removal of 10 yd³ (8m³) cubic meters of soil and rock to expose a concrete footing at the base of a hospital wall. The hospital had specified minimal noise and vibration during the excavation process. The Twinca Dumper and a Brokk 160 provide this capability due to the electric power capabilities for each unit.

Access from the excavation zone to the skip bin was 115 ft (35m) long which involved traversing a set of stairs. A temporary ramp was installed over the stairs to allow the Twinca dumper to safely manage the incline when loaded.

The excavation and removal of eight cubic meters was completed in six hours. The Twinca dumper started with a fully charged battery and at the end of the shift had 45% charge capacity remaining.

"Working smarter not harder makes limited-access projects such as this run smoothly and safely," says Franken.

www.twincadumper.com
www.supercity.com.au



More Nuron from Hilti

The latest additions to Hilti's Nuron battery platform are the DSH 600-22 is fitted with a 11.8-in (300mm) diamond blade and offers a great ability to come in and cut where a gas saw's fumes simply aren't allowed for safety reasons. It's also a great fit for cutting rebar bundles, large metal pipes, and smaller concrete/asphalt cutting jobs when you just don't feel like dealing with gas hassles.

Best of all, the Hilti DSH 600-22 doesn't require users to sacrifice performance for the convenience of using a battery-powered cut-off saw. Using two of the largest Nuron batteries the DSH 600-22 cuts the whole eight-hour day shift without recharge. Hilti's Nuron TE 2000-22 cordless jackhammer delivers the same demolition performance as the corded TE 2000 and larger jackhammers, but without all the extra bulk. The new jackhammer can demolish half a ton of concrete per charge on one pair of revolutionary Nuron B 22-255 batteries, or 1.5 tons by adding the optional large battery case. It offers also virtually dust-free demolition with up to 95% reduction of fine silica dust when used with a TE DRS-B dust removal system and compatible Hilti vacuum cleaner.

The jackhammer gives also a great maneuverability as it is almost 22 lb (10 kg) lighter and much slimmer than comparable battery-powered jackhammers, the TE 2000-22 is ideal for medium-scale and controlled demolition jobs where handling, tool control and mobility are most important for productivity.

All batteries and chargers are interchangeable with



all Nuron tools, which is key for optimizing tool parks and reducing costs for businesses. The 22V cordless platform delivers unprecedented performance, which also enables heavy-duty applications that were once restricted to corded, gas-powered or higher voltage battery systems. The basis for this is the completely redesigned battery interface which ensures significantly higher power transfer than corded mains, and thus higher performance.

The reengineered Nuron batteries are more durable and include new, robust fiberglass-reinforced housing and external shock-absorbing bumpers which provide extra protection even in the toughest conditions. And the electronics are fully sealed to protect against moisture, dust and other jobsite contaminants.

Moreover, Nuron brings intelligence to the core of the platform. All tools generate data which are then stored on the batteries and sent securely to the cloud during every charge without any operator interaction. The data collected includes information such as tool usage, tool utilization, charging location and battery state-of-health, ensuring operators are working with batteries in optimal conditions.

This information can then be used to immediately alert individuals if action is needed or can be accessed on-demand as required and is available on mobile and desktop platforms via Hilti's ON!Track software. Together with Hilti services like Fleet Management, tool data can be used to reduce downtime and optimize tool parks to increase customer productivity.

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New Lavina Eco System

Lavina Eco is a new innovative technology to deep clean, restore and maintain floors, using only one high-speed floor machine—the Lavina LB36GS—and five diamond pads.

The LB36GS uses planetary technology with floating heads and 36-in (914.4mm) work path to offer higher productivity compared with a single-head machine or a heavy grinder. Users can restore more than 16,140 ft² (1,500m²) in one day. Lavina Eco is ideal for upgrading large concrete areas, and may be also used on stone, terrazzo, and coated floors.

Lavina Eco tooling steps for this fast, efficient process include Superabrasive Diamond Screens 220, 400, and 600 grit (wet), and SupraShine pads 1800 and 3500 grit (dry).

www.superabrasives.us



Astec Industries Launches New Mobile High-Frequency Screen Plant

Astec Industries' Materials Solutions Group has launched its newest mobile high-frequency screening plant, the GT2612V, with a 2612V Vari-Vibe™ high-frequency screen. The two-deck, 6x12 ft (1.8x3.7 m) screen uses a unique rotary tensioning system that allows for some of the quickest screen media changes on the market, giving producers more uptime. The 2612V also has deck-mounted, variable-speed hydraulic vibrators, a hydraulic mechanism for varying operating angles, a fines collecting hopper, top and bottom deck discharge chutes, and an aggregate spreader. The high-frequency screen can quickly and efficiently size crushed stone, recycled asphalt pavement, sand, gravel, coal, and a variety of other materials.



The mobile GT2612V is manufactured on a heavy-duty, welded steel main frame with a channel cross section. A walkway around the screen and remote grease lubrication for ground-level access make maintenance simple. The plant includes a large hopper with a capacity of eight cubic yards

that is equipped with 6-in (15.2cm) sloped grizzly openings and a remote tipping grid. The hopper also includes foldable wings and hydraulic support legs. The variable-speed, 48-in (122cm) wide belt feeder features a high-torque hydraulic drive, full length impact bed, rubber lagged head pulley, and self-cleaning wing tail pulley.

The screen plant is equipped with four conveyors—a delivery conveyor, two side conveyors, and a fines conveyor. All conveyors feature a variable-speed hydraulic drive and easily fold for transport. The GT2612V is powered by a Caterpillar Tier 4 Final, 136-hp (101.4kW) engine, while engine-mounted hydraulic pumps operate all plant functions. The plant includes a PLC control system with pendant remote controls for the tracks.

Additional options for the GT2612V mobile plant include Caterpillar Tier 3 and Stage V engine alternatives, a 15-ft (4.6m) hopper/feeder in lieu of standard for additional capacity, heavier-duty grizzly section with replaceable grouser bar cartridge, vibrating grid, bridge breaker, vinyl dust cover, standard steel screen cloth, engine enclosure filter kit, engine block heater, immersion heater, wireless track remote, telematics system, auto-grease system, and many others.

www.astecindustries.com

Hitachi Launches Europe's First Zero-Emission 5t Battery-Powered Excavator

Hitachi Construction Machinery (is meeting the growing need for emission free equipment and strengthening its commitment to the creation of a sustainable future with the introduction of a 5t battery powered excavator. As well as zero exhaust emissions, the first Hitachi branded model in this class delivers lower noise levels, enhanced efficiency, exceptional performance in confined spaces, and has fewer maintenance requirements and less downtime than conventional models.

The new ZX55U-6EB is designed to operate with exceptional maneuverability in confined spaces, as it has inherited the short tail swing of the diesel powered ZX55U-6 model. It is said to also provide equally high levels of performance. Customers will also be able to work on a broad range of projects with the ZX55U-6EB, including urban construction sites, residential building and waste material handling projects wherever the environment is a priority.

Meeting customer needs

Customers can choose between battery-powered operation using 39kWh lithium-ion batteries, and wired operation, which allows the machine to work while charging from a CEE



400VAC three-phase power source. Utilizing both methods ensures operators can use the ZX55U-6EB to work productively and continuously throughout their working day, while enjoying the comfortable cab with air conditioning as standard.

The machine has been designed to provide owners with reduced maintenance costs and downtime when compared to diesel powered excavators. The status of the electric drive system, including battery level and motor load factor, can be monitored remotely. Reduced external sound levels (91dB) allow for greater flexibility for working times and options. Safety is enhanced by the rear camera to monitor the secure connection of the cable during wired operation.

The ZX55U-6EB shares the same concept of the 8t ZE85 electric excavator developed by European Application Center (EAC), a joint venture between Hitachi Construction Machinery Co., Ltd and KTEG of Germany. Further underlining its commitments to delivering sustainable solutions, Hitachi intends to expand its battery powered products line up in Europe in the future.

Weka's New DKS32 Diamond Core Drill

The new DKS32 from Weka is a compact and powerful wet/dry core drilling machine with a soft impact function. The soft impact feature can be easily switched on and off via a rotating sleeve in the front area of the machine. Three mechanical gear steps enable a good variation of the speeds and thus a wide drilling range. In addition to the standard DKS32 model, Weka also offers a faster version—the DKS32 S. Both machines weigh 27.3 lb (12.4kg), without cable, and have a length of 22 in (560mm), without handle.

www.weka-elektrowerkzeuge.de



Hilti to Preview New Products at Bauma

Hilti plans to make a splash at Bauma, displaying new additions to its Nuron range of battery-powered tools, as well as releasing a user-specific drilling wagon that contains four hammer drilling tools, four hollow drill bits, and four vacuum cleaners. The wagon, currently in the development phase, is designed to expedite the process of drilling multiple anchor holes on larger projects such as tunnels, data centers, highways and rail lines.

The company is currently testing the new equipment at different customers' jobsites. No plans for wider production have been announced.

www.hilti.com





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Automated Concrete Removal (ACR™) is a concrete removal method utilizing robotic technology to remove concrete from building structures such as bridges, parking decks, dams and tunnels, using hydrodemolition. Hydrodemolition technology ensures that no micro-cracks are created during the concrete removal process and provides an ideal surface for bonding of new concrete, while the robot secures the quality and consistency of the concrete removal process.

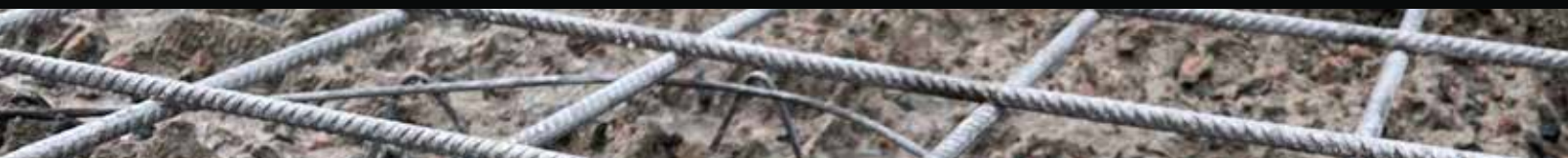
Using ACR™ fully automates the operation of concrete removal, allowing a safe working environment and increase both the efficiency and cost-effectiveness. In just one day, a single Conjet ACR™ robot removes the same amount of concrete as 25 operators with jackhammers. Even better, the ACR™ robot significantly limits the noise of the concrete demolition and eliminates dust and vibrations caused by conventional jackhammer methods.

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