

DEMOLITION TODAY

PROFESSIONAL AMERICAS

Your Gateway to North, Central and South America

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Professional Demolition Americas Magazine

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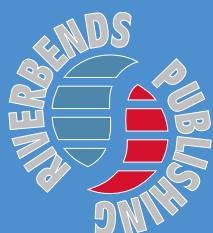
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Are We There Yet?

By the time this issue of PDa arrives in your mailbox, the long, often excruciating 2020 election cycle in the U.S. will be over. Aside from gratitude for the merciful end to political ads, we won't speculate on winners and losers, and what the outcome means for the construction industry and pretty much everything else. That's what pub discussions and social media accounts are for.

For the most part, our focus will swiftly return to managing the many personal and economic trials the year has brought, hopeful that we can hang on for just a few more socially distanced weeks until it's time to make that symbolism-packed calendar flip over to 2021.

And then...well, 2021 doesn't really stick in the imagination the way its more rhythmic predecessor does. Along with its futuristic connotations, 2020 has always suggested clarity of vision. And boy, have we seen plenty over the past several months, including a lot no one ever expected or asked for.

But perhaps a more run-of-the-mill year is just what we need, especially if it restores a sense of routine and normalcy to our daily lives.

To be sure, 2021 will be an extension of 2020 in many respects. While medical science is making welcome progress toward multiple safe and effective coronavirus vaccines, various levels of health-related restrictions will remain in force across North and South America for a good while. Even then, there'll be no sudden "all clear," signal, but more likely a more incremental return to whatever state of "normal" groups and individuals feel comfortable with.

That's part of the thinking behind the rescheduling of the winter-time industry mainstay World of Concrete show to June in the hope that folks in general will be less leery of traveling around the country. (By the way, the average high temperature in Las Vegas in June is 102° F [39° C]; but it's a "dry heat," and the Convention Center always seems to have plenty of strategically placed beer gardens.)

As we cross our fingers that 2021 will herald the start of the post-pandemic generation, there's naturally all sorts of speculation of what that world will look like. No doubt some things will pick up right where they left off this past February (the closing shindig of NDA's Demolition Austin comes to mind) while other aspects will be fraught with caution, maybe forever. But maybe that's not so bad; just think of all those times spent in crowded spaces surrounded by coughs and sneezes a few days before feeling a bit ill yourself.

My guess is that the "new normal" will look for the most part like the old one. After the 1918-19 influenza pandemic, it didn't take long for people to get pretty cozy again, developing habits that lasted for most of the next century. Let's hope by this time next year, we'll be talking more about construction and less about viruses. But keep those masks and hand sanitizers handy, just in case.

Jim Parsons, Senior Editor
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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, OSHA Partner to Uphold Best Practices on Demolition Jobsites

I am proud to announce the National Demolition Association and the U.S. Occupational Safety and Health Administration have worked together to ensure best demolition practices are being followed at jobsites across the country. The effort culminated into demolition-specific training by NDA for OSHA compliance safety and health officers (CSHOs) to access across the country. The collaboration between the two organizations is part of an ongoing effort to provide training, procedures and continued education within the demolition industry.

The new training is a four-part training series for OSHA on demolition best practices and techniques which focus on robotics, fall protection, health hazards, and pre-engineering. NDA Secretary James Milburn, NDA Government Affairs Committee Chairperson Dennis McGarel, NDA member Don Collier, and NDA instructor Tim Barker developed and led the recorded training series.

Open communication between the two organizations is a large step toward advancing the demolition industry. The training series will help CSHOs understand unique best practices, processes and jobsite needs for demolition professionals. With this knowledge, OSHA will be better equipped to communicate with demolition professionals to ensure OSHA standards are being followed, which will enhance safety practices.

This training, originally scheduled for April 3, 2020, was supposed to be a hybrid of classroom instruction and on-site demonstration for CSHOs located in the upper Midwest. Due to the coronavirus pandemic, the training was reformatted for digital consumption, allowing access to all OSHA compliance officers.

NDA and OSHA hope enter into an alliance agreement by this fall, following the completion of the training series. The alliance agreement will allow the two organizations to partner on initiatives that we believe will propel the demolition industry forward.

"This training is part of a yearlong effort to implement an alliance that will provide members with OSHA compliance assistance," says NDA President Chris Godek. "A continued partnership between NDA and OSHA positions NDA as the voice of the demolition industry. The partnership gives our members access to compliance assistance resources and leverages greater communication between our organizations on compliance and standards that have an impact on demolition practices."

This new training will be available to all Federal and State OSHA personnel through OSHA's Directorate of Training and Education. Visit our website to read more about NDA's OSHA compliance resources.

NDA Government Affairs Committee sent a letter to the United States Congress and the Whitehouse on Phase IV Relief. As Congress continues to negotiate a "Phase 4" COVID-19 relief bill, I would like to encourage all members to visit our website take action in grassroots action portal located under Advocacy and contact your elected officials in support of the demolition industry's legislative priorities.

Finally, the next episode of our podcast featuring President Chris Godek and Safety Committee Chair, Kyle Maddox on COVID response is available for download.

Jeff Lambert

www.demolition.org



ECA Canada Company Now Allu's Dealer for Ontario

ALLU Group Inc. is pleased to announce Toronto-based ECA Canada as its new dealer for the full line of Allu Transformer material processing attachments. ECA Canada will provide sales and rental of Allu's unique screener-crusher buckets and soil stabilizing equipment, as well as complete aftermarket care and spare parts.

Founded in 1918 as Equipment Corporation of America, ECA has been a prominent distributor of construction machinery for specialized civil, mining, and marine construction projects. From its earliest roots, ECA has promoted the rental of construction equipment as a means for its customers to cost effectively complete construction projects. Along with top quality equipment, ECA's customers also benefit from the company's ability to provide technical support of the highest order.

"Allu is known worldwide for its legacy

of providing the highest quality equipment, along with unparalleled aftermarket support," says ALLU Group President Edgar J. Chavez. "This tradition has now been made even stronger through our valuable partnership with ECA Canada, through its local network and industry expertise. We are happy to introduce them as a valuable addition to our comprehensive dealer network."

"ECA Canada is excited to now offer Allu's Transformers alongside of its Processor Power Mixer," notes Ray Kemppainen, vice president for ECA Canada. "Allu's high quality is directly in line with the other products we proudly represent. The Transformer adds another option to our growing inventory of attachments by allowing our customers to utilize their excavators and loaders in a variety of applications."

www.allu.net

Trevi Benne delivers 10,000th Pulverizer

With delivery of the FR 23 model to a Scandinavian customer, Trevi Benne has celebrated the production of the 10,000th "Pulverizer" in its history. The sale is the latest milestone in a story that began in 1992, from the manufacturing of the first excavating and loading buckets for excavator and shovel, to becoming an important and consolidated reality in the production of attachments for

demolition, recycling and handling.

Trevi Benne is consistently motivated by great passion, commitment, and innovation. The company is proud to share this accomplishment with its employees and partners, with sincere and dutiful thanks to all distributors, dealers, and customers who over time have chosen "TV" brand equipment.

www.trevibenne.com



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Event Calendar

Bauma Conexpo India 2020
November 3-6, 2020
Gurugram, New Delhi, India
www.bcindia.com

Bauma China 2020
Nov 24-27, 2020
Shanghai, China
www.baumachina.com

The Ara Show 2021
Feb 22-24, 2021
New Orleans, Louisiana
www.arashow.org

NDA Annual Convention 2021
March 4-7, 2021
New Orleans, Louisiana
demolitionassociation.com

Samoter 2021
March 3-7, 2021
Verona, Italy
www.samoter.it

Bebosa Show
April, 15-17, 2021
Willingen, Germany
www.bebosa.com

Intermat 2021
April 19-24, 2021
Villepinte, Paris Nord, France
www.intermat.fr

ISRI 2021
Postponed to spring 2021
Mandalay Bay, Las Vegas, USA
www.isri2021.com

CSDA 2020 Convention & Tech Fair
Postponed, no new date set yet
www.csd.org

World of Concrete 2021
June 8-10, 2021
Las Vegas Convention Center, Las Vegas, Nevada
www.worldofconcrete.com

DEMCON 2021
September 9-10, 2021
InfraCity, Bredden, Stockholm, Sweden
www.demcon.se

Concrete Show Brazil 21
September, 2021
São Paulo Expo, São Paul, Brazil
www.concreteshow.com.br

A Record-Breaking Year for Antraquip

Antraquip enjoyed a record-breaking year in 2019, thanks to the company's AQ line of drum cutters that continue to be embraced for controlled demolition and specialty projects, as well as larger demolition and mass rock excavation works. Designed to withstand extreme rock conditions and maximize production output, AQ drum cutters consistently are being put to work around the world thanks to Antraquip's rapidly growing dealer network. Antraquip's newly expanded US-based factory provides increased production capacity to meet the growing demand for the most powerful and reliable drum cutters on the market today. Key features of Antraquip drum cutters include mechanical rotation standard or hydraulic rotation (optional), adjustable hydraulic motor displacements, a dust suppression system, and customizable drum



options for various applications. Antraquip manufactures drum cutter models that can

fit on excavators from 1t to 100t and higher.

www.antraquip.net

Aquajet Offers Increased Aftersales Services for North American Customers

Aquajet provides increased equipment inventory, enhanced parts availability and high-caliber aftersales service and support in North America. Through the parts warehouse in Monroe, Wash., combined with the service and demonstration facilities in St. Joseph, Mo., and Stanhope, N.J., Aquajet offers fast, reliable support for customers across North America, increasing productivity and shortening lead times.

Shared with Brokk Inc., the recently expanded Stanhope facility offers more space for increased equipment inventory. Additionally, the added space allows for on-site demonstrations, providing an ideal setting for customers to experience Aquajet's versatile and innovative Hydrodemolition robots and choose models and attachments best suited to their needs. The Stanhope facility also offers select equipment servicing by appointment.

In addition, recent upgrades to the parts warehouse in Monroe enhance parts availability for Aquajet hydrodemolition robots and accessories. An ample inventory of parts ensures fast delivery — often overnight under normal circumstances. In addition to swift delivery, Aquajet provides experienced technicians available by phone to help customers quickly identify issues, recommend required parts and process the order over the phone. This direct service significantly reduces downtime.

The demonstration and service center in St. Joseph houses a complete service complex with a wash bay, workshop and welding station. A staff of full-time technicians provides the best possible solutions, reducing lead times on services from troubleshooting and routine maintenance to repairs and refurbishment. The service team welcomes customer mechanics to assist in repair or refurbishment of their equipment, allowing

them the opportunity to learn more about the care and maintenance of their machines. Replacement parts are backed by a 12-month warranty against manufacturing defects. The facility also offers space for equipment demonstrations and training opportunities.

Aquajet representatives are located throughout the U.S. and Canada and can quickly travel to a work facility or jobsite for training, which is included with the sale of each machine. Trainers guide the whole team through safety practices, operation and service of the equipment. Upon successful completion of training, operators receive an operator license. Aquajet representatives also travel to jobsites for troubleshooting assistance.

www.aquajet.se



Allu Finland Names New Managing Director

Peter Grönholm has been appointed Managing Director of ALLU Finland. He comes to Allu from Cavotec Group, a European a supplier of industrial equipment. Grönholm has extensive experience in sales and marketing as well as supply chain management in the US, Scandinavia, and Germany.

"ALLU's strategy is for profitable growth, earnings and internationalization," says Markku Jonninen, Chairman of the Board of ALLU Group. "On top of his strong leadership skills, Peter is an esteemed results- and solution-focused team player. His experience in international business also played a significant role in the selection."

"For me, ALLU is a positive challenge in Finland after several years abroad," Grönholm says. "It is a well-known brand in its field and a well-managed company with great growth potential. I look forward to being part of the team to further develop ALLU's business."

www.allu.net



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Finishing touches to the drums applied to the Transformer screening buckets.



Allu Invests in the Future With Formation of New R&D Company

ALLU Group has formed a new company to develop new equipment, products and solutions through the use of the latest innovative technology. To be known as Allu Innovation and Research Center, the company will operate as a separate entity alongside the other ALLU Group companies, but independent to the existing Allu manufacturing, production, and general operational structure.

Allu Innovation and Research Center will form the cornerstone of Allu's ongoing R&D program, providing cutting-edge solutions aimed to make customers more efficient, productive, environmentally friendly, and profitable. Following successful testing and fine tuning, new innovations will be incorporated into Allu products and



Transformers lined up and ready to be delivered to customers.



All Allu Transformers are tested before they leave the factory.

introduced to market.

The new company will be headed by Markku Jonninen, ALLU Group founder and chairman of the board, who has many years of success in developing and introducing attachment solutions.

www.allu.net

Brokk Welcomes Matt Lyons to North American Service Team

Brokk welcomes Matt Lyons to the team as its newest training and application specialist. Lyons joins a highly skilled team of six training specialists who have more than 165 years combined experience. Based in the Northeast, he will provide on-site and virtual safety and application training for customers in a variety of operations including interior and top-down demolition, road and bridge repair, and confined-space operation. Before joining Brokk, Lyons spent 25 years as an operating engineer based in Boston, Mass. There he gained extensive experience with several models of Brokk machines as well as other heavy equipment on demolition projects nationwide, working in paper mills, foundries, nuclear and other facilities. Now, as an official Brokk team member, he will share that expertise with other Brokk operators to increase safety and productivity

on jobsites across North America.

"From the beginning, I was impressed with the capabilities of Brokk machines," Lyons says. "It made every new project exciting. As a training and application specialist, I'm looking forward to sharing what I've learned with other operators and helping them get the most out of their Brokk equipment — in terms of safety and efficiency."

www.brokk.com



Bobcat Latvia Dealer Resurrects Rare M-600D Loader

Kono, an authorized Bobcat dealer in Latvia, has completed a project to renovate a very rare and historic Bobcat M-600D skid-steer loader. The M-600D was first introduced to the Bobcat range in 1967, and was a popular model for nearly a decade. Ivars Gailums, a Kono executive, found the classic model for sale by a German used equipment supplier in 2018. Gailums couldn't pass up the opportunity to buy it, particularly since the model was manufactured under license in Germany, rather than by Bobcat's North Dakota factory. Gailums estimates the unit was built between 1970 and 1972, when Bobcat brought all manufacturing back stateside.

To rebuild the M-600D as authentically as possible, Gailums called on Robby Bosch, a recently retired Bobcat field and sales trainer with more than four decades of knowledge about the products. Jurgen Gremez, a director for Bobcat Institute Director in the Czech Republic also provided guidance.

"The first thing Robby asked me was whether or not the rear counterweight was still present, as this tends to be the first component that disappears," Gailums says. "Fortunately, it was still in place. The chain-case and chain had also survived the years of service in pretty good condition."

However, the engine cooler on the Deutz engine presented a real problem as the original was heavily corroded and it was not available as a spare part. "We managed to get it from Deutz, where it was also one of the last parts of its type in their stock, Gailums adds. "Other parts, however, were more difficult to find because of their age."

Another challenge was finding out what the M-600D really looked like, as there were several engine variations that affected how the overall machine appeared.

"I have focused on every aspect, even whether the bottom of the seat was one piece or sewn together, as well as the color of the



Left to right - Dzintars Lorencs, Davis Graustins, Ivars Gailums and Juris Gailitis.

bucket," Gailums says.

Over the past two years, Gailums has worked on the renovation in between jobs with the assistance of three Kono service engineers. Sandblasting and powder coating services were outsourced and the leather seat was restored by a company which specializes in restoring old motor vehicles and rebuilding expensive modern cars. Gailums even enlisted family members to track down unique spare parts, as well as authentic stickers for Melroe Manufacturing Company, the forerunner to Bobcat; the late-60's "animal" logo; and

Clark Equipment, which bought the rights in 1968 to sell Bobcat loaders outside the US.

The fully restored and operational M-600D now occupies a place of honor in Kono's showroom, where it will be enjoyed for many years to come.



The refurbished M-600D seen from the machine's left-hand side.

Brokk's New Demonstration and Service Center Increases Aftermarket Options

Brokk has enhanced its aftermarket service capabilities, including machine refurbishment and repair, with the addition of its new Demonstration and Service Center in St. Joseph, Mo. The 10,000-ft² (929m²) center reduces lead times on repair and refurbishment services, allowing the manufacturer to support customers' existing product lines.

Customers can repurpose older Brokk machines with complete overhaul options, increasing fleet value and maximizing inventory flexibility with an ideal blend of Brokk

equipment for their operation. A team of technicians with more than 60 years of combined experience offers expert service and increased convenience for Brokk customers across the U.S. and Canada.

In addition to repair services, the Demonstration and Service Center offers certified refurbishment for older Brokk and Aquajet models. The refurbishment process starts with a thorough inspection and analysis of all critical components including hoses, hammer seals, outrigger pads and arm bearings.



From there, technicians and owners can walk through the various upgrades to match machine capabilities to operation needs.

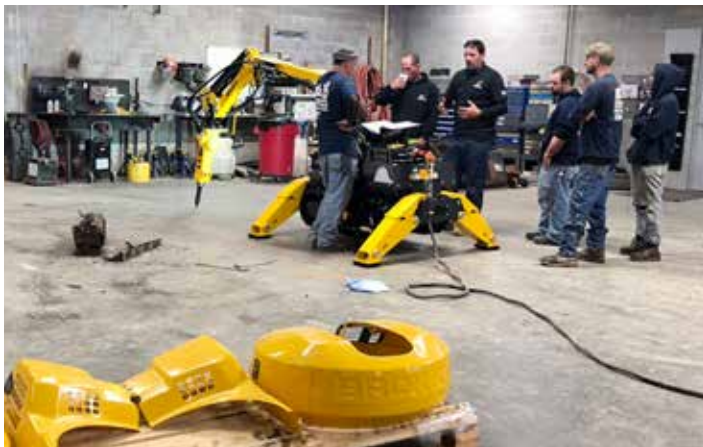
www.brokk.com



New CDRA Document Outlines Steps to Develop End-Market for Recycled Products

The Construction & Demolition Recycling Association has released guidelines to be considered when creating an end-market for a waste material received at a recycling facility. Created by the CDRA's End Markets Development Committee, "New Product Development From Construction/Demolition Debris" takes users through the steps for finding a home for a new material. Developed by professionals well-versed with managing waste streams within their own recycling plants, the document is part of CDRA's efforts to respond to a huge C&D industry need to find end markets, as identified by a survey of attendees at C&D World 2019. The End Markets Development Committee was formed for that reason, and this is just one of its accomplishments.

Under the committee's guidance, CDRA is conducting experiments with the University of Florida to develop an end-market for C&D wood and C&D fines, the results from which will be released in 2021. The guidelines are free to CDRA members and can be downloaded directly from www.cdrecycling.org.



Brokk Offers In-Depth Training Program to Maximize Jobsite Safety and Productivity

Brokk offers on-demand, personalized training options that allow contractors to provide crews with in-depth operational or mechanical training from an experienced Brokk technician on-site or through Brokk's Demonstration and Service Center in St. Joseph, Mo. The flexible options — including curriculum, location, and single- or multi-day durations — offer customers continuing educational opportunities that fit their team and unique applications to increase safety, productivity and machine utilization.

"To help our customers ensure they are using their Brokk machines in the safest, most efficient way possible, our technicians provide in-depth, hands-on training with on all new and used machine purchases as well as rental machine startups," said Lars Lindgren, president of Brokk Inc. "And as we expand our presence in North America, we've been able to go a step further and offer continued training options. Maybe that means coming to the jobsite for an operational refresher course with new hires

or a one-on-one mechanical course at our St. Joseph facility. The enhanced training options allow contractors to design a curriculum that maximizes their Brokk experience."

Customers can tailor training to focus on either machine operation or mechanics, depending on their needs and applications. All curriculum includes a combination of hands-on and classroom training by one of one of six specialized Brokk technicians. These team members are highly skilled with years of experience using Brokk machines in a variety of applications and will be assigned based on their specialties, including concrete cutting, process and foundry, demolition or service and repair. In addition to on-site training, the enhanced options can be designed to take advantage of the inventory and service facilities at Brokk's Demonstration and Service Center in St. Joseph. Special arrangements also can be made through the Stanhope, N.J., distribution center, and company headquarters in Monroe, Wash.

www.brokk.com

GSSI Appoints New South America Regional Sales Manager

GSSI has announced that Amber Onufer is expanding her role at the company. In addition to supporting GSSI's Geophysical and Environmental markets, Onufer will also manage business operations in Central and South America. She served in roles that provided consultative sales, customer training, applications engineering, and research and development. Onufer has consulted with clients on a variety of academic and government projects. They include US Geological Survey (USGS) studies of the Charleston, S.C., earthquake risks, well water identification in Kenya, and NASA shuttle launch station facility maintenance to mention a few.

"Connecting customers with the right

GPR equipment has always been important to me, especially when that means building relationships and exploring the boundaries of the technology," Onufer says. "I'm excited to take on this new role because GSSI offers so many innovative solutions to the applications they serve, and I can't wait to see where our customers take the technology next."



CPS Hires Southeast & Mid-Atlantic Sales Representative

CPS is pleased to announce the hiring of Chris Day as the Sales and Technical Support representative for the Southeast and Mid-Atlantic states. Day joins CPS as it enters its 16th years as a leader in propane and electric equipment for concrete grinding and polishing.

Day has more than six years of experience in the decorative concrete industry, moving up the ranks of one of the largest, industrial concrete polishing companies, gaining extensive knowledge on installing polished concrete as well as resinous coatings. He finished out his contractor career as the Southeast Operation Manager, where he specialized in logistics, budgeting, and project planning/management.

Day will be responsible for sales and technical support for the Southeast and Mid-Atlantic states, focusing on supporting contractors by growing their businesses with his extensive knowledge of the decorative concrete market and floor grinding and equipment, chemicals, and diamond tooling.

www.go2cps.com



Concrete Show South America Postponed

Informa Markets, organizer of Concrete Show South America 2020, has rescheduled the event to November 24-26, at the São Paulo Expo. The change was necessitated by the coronavirus outbreak across Latin America. It is hoped that the extra months will prove sufficient in controlling exposure in order to provide a safe environment for exhibitors and attendees.

"We reinforce that our commitment is to support and promote the development of business, relationships and knowledge that contribute to the growth of the entire production chain linked to the cement, concrete and construction sector," Informa Markets said in a statement. "We appreciate your cooperation, support and understanding. Together, we will overcome this moment and build a new reality for this sector, of unquestionable importance for the national economy."

Liebherr USA Opens Expanded Headquarters Campus

Liebherr USA, Co. marked a milestone on April 6, 2020, when it formally moved in to a newly expanded campus. The facilities house employees who work in administration, finance, human resources, sales, information technology, marketing, product support, and distribution for nine different product units under the Liebherr USA, Co. umbrella.

Approximately 500 people work at Liebherr's Newport News campus. Many of them are now working in the new office, repair shop and warehouse facilities. The former four-story headquarters building will be retained and house employees of Liebherr Mining Equipment.

According to Dr. Torben Reher, managing director, Liebherr USA, Co., the new campus will help Liebherr better serve customers across divisions by providing space for increased production of concrete pumps, and repair capacity for mobile and crawler cranes, and for construction equipment. The new shop is also equipped to handle the growing numbers of Liebherr earthmoving equipment.

A new training center and workshop also allows Liebherr to expand its offerings in relation to training to dealers and dealer technicians, as well as to its customers. The workshop will focus on pre-delivery inspections and standard repair work, with dedicated bays for machine reconditioning. Twelve repair stations will be available for the earthmoving division — an increase from the eight currently available.

The new Liebherr warehouse incorporates the latest safety features and provides a 50% increase in storage capacity. The warehouse also has a dual-shuttle vertical lifting machine to increase small component picking speed and storage capacity. The receiving and shipping departments are separated to enable optimal material flow through the facility.

Smoothly executing the eight-day non-stop transfer of more than 30,000 SKU-numbered items to the new warehouse was the result of extensive planning aimed at minimizing interruptions to Liebherr's customer supply chain.

www.liebherr.com



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Sandvik acquires Allied Construction

Sandvik Mining and Rock Technology has signed an agreement to acquire Allied Construction Products LLC, a US distributor of hydraulic hammers to the construction and mining industries and manufacturer of compactor plates and mounting brackets.

The acquisition of Allied establishes an enhanced sales, service and support platform for the growing North American customer base. It also enables Sandvik to expand the existing dealer network into new regions and to penetrate new customer segments with a broader product offering. Allied will obtain additional strength and access to cutting edge technology.

Allied and Sandvik Mining and Rock Technology have had a strategic partnership since 2003, with Allied being the US distributor for Rammer products. Sandvik Mining and Rock Technology was already a 21% minority shareholder of the company and Sandvik's products generates about 80% of Allied's revenues.

In 2019 the company generated revenues of approximately 29 million USD with 38 employees. The parties have agreed not to disclose the purchase price and the transaction is expected to close during the third quarter 2020. The deal is neutral to Sandvik's earnings per share from the start.

www.sandvik.com
www.alliedcp.com

Steelwrist Recognized Among Sweden's Best-Managed Companies

Steelwrist has been recognized as one of Sweden's Best-Managed Companies by Deloitte in cooperation with Nasdaq. Best-Managed Companies is a quality award to recognize the overall success of private Swedish companies based on strategic direction, ability to execute, corporate culture, and financial performance.

"Steelwrist is like an exciting journey and it is said that good ideas rapidly deteriorate into hard work," says CEO says Stefan Stockhaus. "We have a fantastic team and a strong culture where we help each other to pull in the same direction in the entire international organization. I am very proud to work with our crew and it feels great for the team that a lot of hard work for a long time has been honored with this award."

Best-Managed Companies was established in Canada in 1993, and subsequently introduced in more than 20 countries around the world. Sweden's Best Managed Companies was launched during 2018 by Deloitte in cooperation with Nasdaq. An independent jury selected the 18 companies for recognition this year.

www.steelwrist.com



New FR 120 Rotating Pulverizer from Trevi Benne

Trevi Benne's new FR 120 rotating pulveriser is a "concentration of technology and power," according to the company. The FR 120 has an opening of 5.2 ft (1.6m), a weight of 28,880 lb (13,100kg) and a blade force off 820t. The FR series, which has undergone restyling, features an aggressive shape for higher performance and resistance to stress. It has reliable swing with a double motor option for a stronger rotation unit, new heavy-duty interchangeable teeth for increased breakage efficiency, and a more open jaw and frame for increased penetration efficiency. Additionally, the series also comes with wear-welded plates for higher body protection as well as jaw and frame spikes for better material selection and ground efficiency.

www.trevibenne.it



The Best Generators and Compressors for Vans

Construction vehicles are often full of useful tools. Load space is often quite full, and anything leftover is used for materials, parts, and components that are needed on the worksite. Hence, the picture actually summarizes quite well how these kinds of vehicles are used.

On the right side, there is a hydraulic welding generator, while a hydraulic screw compressor is on the left. As a result, the picture presents one of the advantages of hydraulic equipment: compactness. And if a van doesn't have a hydraulic system (i.e. PTO) can be installed on it.

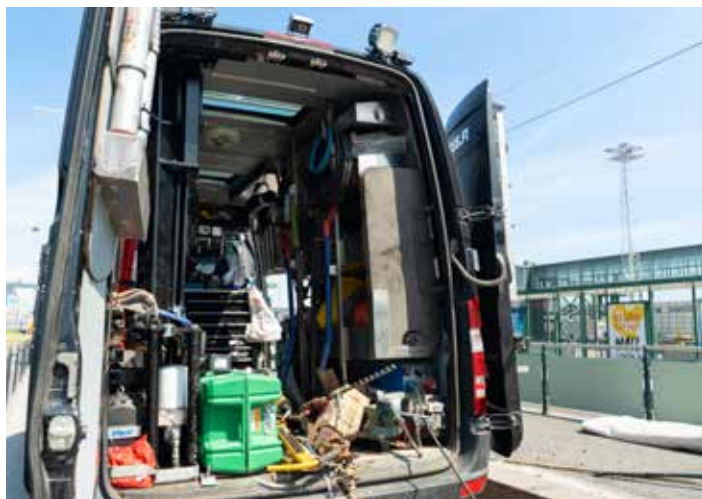
These small and useful pieces of equipment use the carrier vehicles engine as a power source so the pieces of the equipment itself, like generators or compressors, are small. As such, they require a minimum amount of maintenance. The components of the hydraulic system, like an oil cooler and oil tank, can be fitted to places where space is not that important. Considering all this, hydraulic equipment is perfect for vans. As for cooling, hydraulic oil can do at least some of the job. The hydraulic oil as a cooling liquid is a powerful way to cool down the motor of the piece of equipment. For example, you can see the DYNASET Hydraulic Welding Generator requires only 2 in (50mm) airspace in front of it and 1 in (25mm) of airspace on sides and top. That's because the Hydraulic Welding Generator's motor's surplus heat is mostly transferred to oil cooler via hydraulic oil.

The DYNASET Hydraulic Screw Compressor is even easier and more flexible to install to the vehicle or machine because the cooling of this piece of equipment is carried out entirely by hydraulic oil. In other words, the compressor can be installed in tight places without overheating problems.

www.dynaset.com



This HKR Hydraulic Screw Compressor is installed to the van, but it can be installed even tighter places too because the hydraulic oil flow provides cooling for the compressor.



A construction worker's car is often full of all sorts of useful stuff. You can see an HWG Hydraulic Welding Generator on the right side and HKR Hydraulic Screw Compressor on the left.

Buffalo Turbine Launches District Disinfectant Series

Buffalo Turbine has announced the launch of its District Disinfectant series, the latest in its line of sprayers designed to aid municipalities and commercial operations in the fight against the Covid-19 coronavirus. Capable of disinfecting large areas, the easily deployed self-contained sprayer may

be used with any truck or utility vehicle. Applications include cross walks, benches, lamp posts, mail boxes, bus stops, streets, sidewalks, building façades, park equipment, and stadiums. The sprayer is compatible with disinfectants registered with and approved by EPA, NYS DEC, CDC, and WHO.

The District Disinfectant features the Bu7alo Turbine Turbulent Air Sprayer

with rotary atomizing nozzle, ensuring maximum coverage of areas missed by many conventional sprayers, providing more complete and faster coverage that also assures workers have

minimal exposure to hazards. The District Disinfectant series is comprised of four models each tailored to different needs. The BT-CKB4-MDSS with carbureted engine, BT-CKB5EFI-MDSS with electronic fuel injection, BT-CKB3SQ-MDSS with two turbines and dual spray nozzles, and the BT-MEGA-MDSS, the most powerful model. The series features turbulent air for complete coverage has a droplet size of 50-200 microns, a horizontal throw of up to 125 ft (38m), a vertical throw of up to 30m and an adjustable atomizing nozzle flow rate to 12 gallons /min (0-45l/min).

The models spray any compatible disinfectant being designed to disinfect large areas with minimum human exposure using the same technology which combated the Zika virus in 2016. Trailer and tank options are available.

www.buffaloturbine.com



Mecalac Introduces MCR Series to Maximize Efficiency

Mecalac introduces its innovative line of crawler skid-excavators — the newly updated MCR Series. Comprised of three models, the 6MCR, 8MCR, and 10MCR, Mecalac's line of compact skid excavators offers superior speed, productivity and compact operation over traditional mini-excavators. The machines provide the swiftness of a skid steer with the 360-degree rotation of an excavator for versatility and travel speeds two times faster than any small excavator. A compact footprint brings Mecalac's signature end-user-focused design to new applications and industries for increased safety, sustainability and efficiency.

The new MCR Series features a hydrostatic transmission and drive motors strong enough to take on any job. A dedicated pump drives the motor, allowing for twice the speed of any traditional mini excavator on the market. Each of the three machines is capable of travel speeds up to 6.2 mph (10 kph). This significantly reduces time spent traveling across jobsites, resulting in faster cycle times and less unnecessary downtime.

On the jobsite, the MCRs' ground-breaking versatility increases productivity and reduces congestion. This is due in part to the company's patented quick coupler, CONNECT. The advanced system allows operators to quickly transition between attachments — such as pallet forks or digging buckets — without leaving the cab, decreasing downtime between tasks and increasing overall productivity. Additionally, once the pins are engaged, CONNECT guarantees zero risk of dropping a bucket.

Using a range of attachments, contractors can easily do the job of several machines



with a single unit, freeing up resources and space without sacrificing efficiency. With a skid bucket attachment, contractors can move up to .98 yd³ (.75 m³) of material at top speed or rest the bucket against the blade for applications such as grading and ground leveling. This innovative feature stabilizes the bucket, distributing the forces to the frame of the machine and reducing stress on the boom, prolonging component life.

MCR units combine Mecalac's innovative three-part arm and a rotating ability to deliver superior performance as part of the company's signature 360-degree compactness. The extended range of movement increases flexibility and reach while minimizing unnecessary movement, allowing operators to do more from a single position or within confined spaces. The three-part arm can also be tucked in, even with a full bucket, allowing for extra compactness and mobility without overbalancing the unit in the front — resulting in a true zero-turn radius. In addition, the boom system gives the MCR unprecedented lifting capacities — pound for pound, exceeding anything else on the market.

www.mecalac.com

Mecalac introduces its innovative line of crawler skid-excavators — the new MCR Series — for superior speed, productivity and compact operation.



Open-S: The Open Standard for Fully Automatic Quick Couplers

Launched on October 1, 2020, Open-S has been developed to be a standard for fully automatic quick couplers for excavators. Machine operators can combine machine couplers, tiltrotators, and tools from different manufacturers that are in compliance with the standard and be confident that they will be compatible with each other. Products that comply with the standard are marked "Open-S."

"Open standards make everyday life easier, whether it's plugs for electrical sockets, computer connectors or excavator quick couplers," says Stefan Stockhaus, CEO of Steelwrist AB which developed the standard jointly with Rototilt Group. "Open-S also builds on the independent and established standard that already exists for quick couplers, the 'S Standard.'"

Adds Rototilt CEO Anders Jonsson, "We believe in healthy competition, where the industry's players compete to have the best products. We don't want to lock customers into a closed interface. When customers buy a tiltrotator from Rototilt, they should feel confident that any hydraulic tool that complies with the Open-S standard will fit the tiltrotator."

The standard is based on giving free-

dom for end users to choose the preferred equipment with reliable safety solutions and to benefit from continued technological development.

"Because we have agreed on how to connect the products, customers can freely choose from the product portfolio from the manufacturers that comply with the standard," says Jonsson. "It becomes clearer what fits together and which warranty provisions apply."

Both Steelwrist and Rototilt are seeing that more customers are adopting this type of solution, with the Open-S standard making it easier for contractors to take the first step towards a fully automatic quick coupler system. Open-S is owned and managed by an independent organization, Open-S Alliance, which in turn is led by a council of engineers from tiltrotator manufacturers Steelwrist and Rototilt. More members to the Alliance are welcome.

"Interchangeability is the point," says Stockhaus. "Any reputable manufacturer that believes in the usefulness of a common standard is welcome. We are already in talks with more manufacturers who want to join in the Open-S standard."

www.opens.org



Steelwrist President Stefan Stockhaus (bottom) discusses Open S with other company leaders (top row from left) Marketing Coordinator Fredrik Berggren; CEO Anders Jonsson of Rototilt Group; and Marketing Communications Manager of Steelwrist Group Marianne Johansson.



Genesis Attachments Expands Razer Demolition Tools With New GDT 590

Genesis Attachments announces the new GDT 590, the largest Razer Demolition Tool in a line now available in four models. Featuring a lighter-weight design, the GDT Razer is optimized to fit on standard and most high-reach excavators. The GDT 590 extends the minimum excavator weight to 606, up from the 22.5t, 335, and 45t minimum excavator weights of the GDT 190, 290, and 390 respectively.

The GDT 590 Razer also increases the line's versatility to meet customer demands in applications such as demolition and concrete recycling and processing with its 52-in (1.3m) jaw opening, 46.5-in (1.18m) jaw depth, and 12-ft (3.65m) reach.

All GDT models feature a short, flat-top head with bolt-on bracket that simplifies installation and switching the Razer between excavators, customizable quantities and locations of crushing teeth, and interchangeable and front-to-back reversible bolt-on teeth for longer life and lower cost of operation.

www.genesisattachments.com

Mecalac AS1600 Swing Loader Transforms Mobility



Mecalac's AS1600 swing loader features a rigid frame and 4-wheel steering to provide industry-leading productivity and stability while driving, operating and unloading in virtually any condition or terrain.

Mecalac's AS1600 swing loader represents a departure from traditional wheel loader design for superior performance on any jobsite. A rigid frame and 4-wheel steering provide industry-leading productivity and stability while driving, operating and unloading in virtually any condition or terrain. The AS1600 provides game-changing space management, requiring only half the space of conventional loaders for tasks such as loading trucks or discharging materials into trenches with a standard 2.1-yd³ (1.6m³) bucket.

The key to the 12t AS1600's appeal, like all models in the AS Series, is its innovative design, giving it the ability to swivel its fully loaded bucket 90 degrees on either side. This opens up a number of opportunities to approach jobs differently — taking up just one lane of traffic, for example, on a road job, rather than the two necessary for operating traditional loaders — and transforms space management and logistics. The equipment features 2-wheel, 4-wheel, and crab steering options, which offer further flexibility for congested jobsites. Operators can simultaneously drive, pivot

and maneuver, increasing productivity and safety and making common tasks such as backfilling a trench easier and more efficient. After loading material, operators can simply back up, rotating the bucket in the process. Materials can then be discharged over the side while the machine reverses along the trench, streamlining operations and reducing unnecessary downtime, noise and environmental impact.

The AS1600 also provides increased stability over traditional articulated loaders. An automatically engaging rear axle allows operators to pivot the bucket up to 90 degrees in either direction without reducing overall stability. This is a significant improvement over traditional equipment that can become unstable with only a 45-degree turn. Stability combined with industry-leading maneuverability results in a small turning radius — a 20% smaller footprint than regular loaders — to maximize mobility in even the most confined spaces. Bucket capacities range from 2.1-3.3 yd³ (1.6-2.5 m³) to give contractors options for projects of all sizes.

www.mecalac.com

General Equipment Company Introduces MAGNETACH Line of Surface Preparation Accessories

General Equipment Company is rolling out its MAGNETACH Tooling System, which is designed for use on single- and dual-head concrete grinding equipment with either left- or right-hand rotation. The new tooling system features convenient magnetic mounting and is compatible with the M-Series surface grinders from General Equipment Company, as well as competitive products using Lavina/EDCO mounting configurations. The line includes the MAGNETACH diamond segment grinding system plus the PCD and Tungsten

Carbide coatings removal systems.

The MAGNETACH diamond segment grinding system offers a solution for a wide variety of surface preparation applications, including green concrete, fully cured concrete, high tensile epoxies and many thin-film coatings. Matrix bonds are available for both soft/medium and hard concrete formulations with a grit range of 18 to 100. The double segment diamond tooling design offers an ideal combination of aggressiveness and service life.

The PCD (Polycrystalline Diamond)

coatings removal system is made of diamond grit that is fused together under high pressure, along with a catalytic metal. It is used for removing thin-to-medium glues, mastics, covering materials, and cement levelers from concrete surfaces. Sacrificial segments are provided for the PCD inserts to aggressively remove materials, while acting as stabilizers and depth guides to minimize damage to the cap surface.

The Tungsten Carbide coatings removal system efficiently removes a variety of

urethanes, epoxies, paints, and many other materials from concrete surfaces. It features eight-sided tungsten carbide inserts, helping make it the most cost-effective solution for coatings removal. The Tungsten Carbide tooling also uses Lord-type elastomeric mounts to follow minor variances in floor contours better than competitive systems allow, while substantially minimizing surface cap damage.

www.generalequip.com



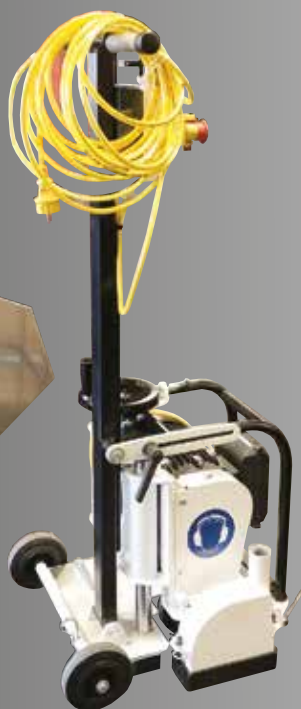


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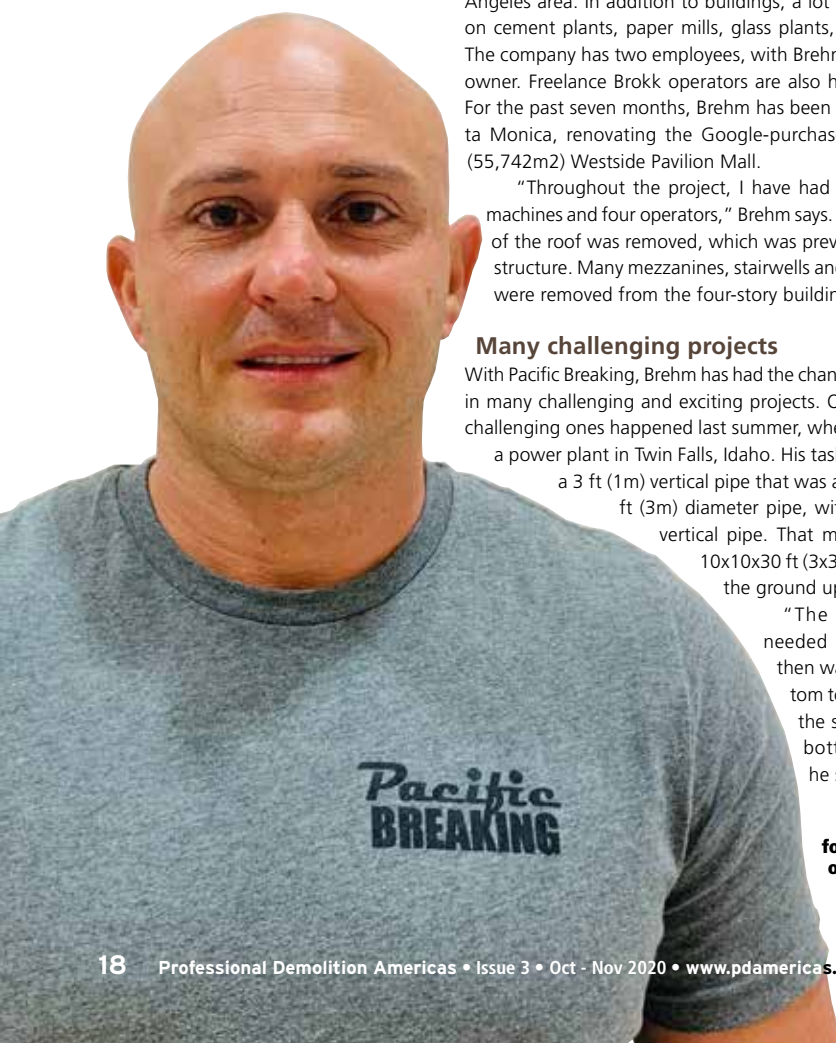
SAWING

FACTORY



Another Kind

Bryan Brehm is a true entrepreneur. He came in contact with the construction industry during university and got hooked on remote controlled demolition robots. Today he runs Pacific Breaking, LLC. Vito Hermansson reports.



In the 1990s, when Bryan Brehm attended Ohio State University, all he could think of was sports. He played baseball, as well as basketball, but was in need of work to make money to maintain his college studies.

"I was doing odd jobs through a temp service which my Mom ran," he recounts. "One of the jobs was a laborer for two days, where I worked for a company that asked me to come back full time the following summer."

A freelance Brokk operator

It was during this period that Brehm found the Brokk machine. He eventually continued working in the field all throughout college and, upon graduating, found himself in the profession as a freelance Brokk operator. Sometime later, another life-defining path presented itself when he met his future wife Brittany.

"One night in Las Vegas, I met an amazing woman," Brehm says. "The problem was that I was living in South Carolina and she was living in Los Angeles. After several months I decided to take the chance and move to Los Angeles. I had so much work I decided to go out on a limb and try and start my own company. This was the beginning of Pacific Breaking."

Pacific Breaking, founded in 2018, mainly focuses on robotic demolition on commercial buildings within the Los Angeles area. In addition to buildings, a lot of work is done on cement plants, paper mills, glass plants, and steel mills. The company has two employees, with Brehm being the sole owner. Freelance Brokk operators are also hired as needed. For the past seven months, Brehm has been working in Santa Monica, renovating the Google-purchased 600,000 ft² (55,742m²) Westside Pavilion Mall.

"Throughout the project, I have had four Brokk 110 machines and four operators," Brehm says. "A large portion of the roof was removed, which was previously a parking structure. Many mezzanines, stairwells and elevator shafts were removed from the four-story building."

Many challenging projects

With Pacific Breaking, Brehm has had the chance of taking part in many challenging and exciting projects. One of the more challenging ones happened last summer, when he worked at a power plant in Twin Falls, Idaho. His task was to replace a 3 ft (1m) vertical pipe that was attached to a 10 ft (3m) diameter pipe, with a 6 ft (1.8m) vertical pipe. That meant creating a 10x10x30 ft (3x3x9m) shaft from the ground up.

"The concrete that needed to be removed then was from the bottom to the top, versus the standard top-to-bottom tear out," he says.

**Brian Brehm,
founder and sole
owner of Pacific
Breaking LLC.**



To begin this part of the job, Brehm used a Brokk 160. He then used a modified Brokk 100 with a shortened arm, something he describes as essential because the work area was a small shaft with many limitations. Scaffolding had to be installed in the shaft with the Brokk 100 sitting on top. The tear-out had to be directly underneath in 2 ft (0.6m) increments, until he reached 30 ft (9m) where the steel pipe was located.

of Home Run



No room for high anxiety

Another noteworthy job was the tearing down of two 200 ft (61m) smoke stacks at another power plant in Manhattan Beach, Calif. The job was performed with a Brokk 160 on a fabricated device to hold the Brokk inside the smokestacks. The job was exciting primarily because he was working 200 ft (61m) up in the air, on the beach every day. The smoke stacks had 200 ft (61m) of scaffolding placed on the outside, from

which Brehm demoed 10 ft (3m) a day, pushing all material to the inside so it could drop safely to the bottom.

"Outstanding" job market in California

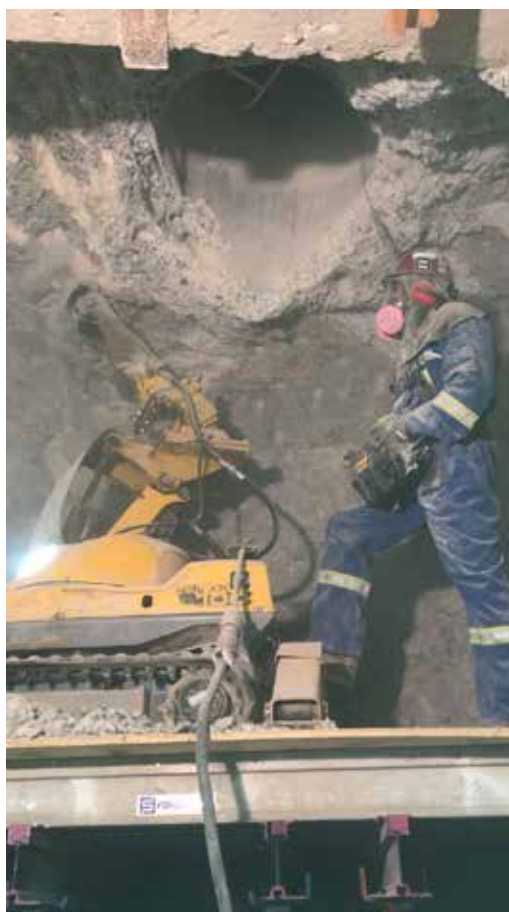
The work on the west coast has proven to be a success. Brehm describes the Californian job market as outstanding. Despite the decrease in work because of the ongoing Covid-19 pandemic, there is still work to be done. However, Brehm looks forward to the end of this pandemic.

"I believe that after things have been shut down for so long my job market will be booming," he says. "I am ready for Pacific Breaking to have tons of work and hoping to increase my employees."

With Pacific Breaking enjoying its fair share of success in his new home of California, Brehm is in a good place in life. It is a different yet admirable home run for the college baseball player.

"I got married and am now the proud father of boy-and-girl twins, Jaxon Truth and Bailey Harper," Brehm adds. "This has been the most challenging yet exciting year of my life."

To read more about Pacific Breaking look up their page on Facebook @pacificbreaking.



German Demolition Specialist Oettinger Celebrates Debut of Epiroc CB 5500 Concrete Cutter



Last year, the Oettinger Group tested the world's second prototype of the CB 5500 concrete demolition cutter. A particularly powerful attachment was required for the partial demolition of a former public administration building with integrated air-raid shelter in Karlsruhe, Germany. The buildings comprised 635,664 ft³ (18,000 m³) of enclosed space and 4,000 tons of reinforced concrete material.

Initial gutting and remediation work was carried out with the aid of a MG 5000 Multi Grapple. This was followed by the demolition of a connecting bridge and the public building, including the heavily reinforced air-raid shelter.

The well-proven CC 5000 demolition cutters were used for the above-ground demolition. Strong walls and substantial foundations were waiting in the basement. The walls which had been pre-slit with the HB 4700 hydraulic hammer were finally cut out with the new CB 5500 concrete buster and prepared for pulverization.

The CB 5500 was designed as a two-cylinder system, as is usual with Epiroc cutters. This brings more force to the tip and prevents reaction forces. This ensures outstanding performance while protecting the carrier equipment. The

combination of two movable cutter arms and two hydraulic cylinders provides a further benefit—an almost constant crushing force, even with almost closed arms.

While conventional models with only one cylinder or only one movable arm usually achieve a maximum of 70 to 80% closing force at the tip of the cutters, the CB 5500 can maintain up to 90% in an (almost) closed condition. The independently movable cutter arms also prevent displacement forces on the cutter and the excavator.

The CB 5500 is designed for the 50t to 65t carrier class and is operated with a working pressure of 5,076 psi (350 bar). The jaw width of the CB 5500 is 5.3 ft (1.6m) and the jaw depth is 3.5 ft (1.06m). The jaws are made of Hardox 650 and additionally reinforced in the areas most exposed to stress. The tips can be welded on. The lubrication points are also optimally accessible and yet protected against possible damage.

It features impressive opening and closing times of 4.1 and 3.5 seconds respectively, as well as a cutting force of 150 tons at the jaw tip. The short working cycles are made possible by the built-in rapid motion valve.

With a detachable handle and weighing only 27 lb (12.3 kg) without a blade, the SG7 is easy to lift and transport, fitting in almost any size vehicle. It also provides the rigidity to remove materials with more accuracy and control than larger machines that lack the same agility and maneuverability.

Other standard features include Anti-Vibe™ caster wheels and a 1.5-in (38.1mm) diameter dust connection port and hose to handle applications with dust control requirements. The SG7 also comes with a flexible dust shroud that incorporates a flip-up edge for improved viewing of the grinding cup edge when operating near features such as walls. The edge grinder comes supplied with a 7-in (178mm) diamond segment cup wheel.

www.generalequip.com

KEMROC Chain Cutter Accelerates Trenching Through Gypsum Deposits

While excavating a 3.3-ft (1m) wide trench for a new wastewater drainage system in Germany, contractor Leonhard Weiss had to work through deposits of gypsum up to 15 ft (4.6m) deep. Under these conditions, the estimated performance for excavating the trench with a conventional, double-head drum cutter attachment on a hydraulic excavator seemed unsuited for the job. Fortunately, a KEMROC EK140_1000 chain cutter helped maintain progress while reducing excavation and fill material costs, allowing the project to be completed on time and within budget.

The KEMROC EK140_1000 is a drum cutter with a chain fitted with cutting tools that runs between the two drums at each side of the cutter head. The chain cuts the material away from the space between the two cutter drums. With a conventional drum cutter, this can only be achieved by slewing the drum cutter with the excavator while it is cutting or the material is removed at a later stage with a different excavator attachment.

Alternatively, the chain cutter can excavate a trench without the need for slewing while producing a profile with straight, vertical side walls to an exact width. Excavating trenches to an exact width, without over-break, saves time and money since no energy or time is wasted in breaking unwanted material, cleaning extra material out of the trench or backfilling a trench that is larger than necessary.

Leonhard Weiss site manager Martin Fuchs reports that the simplified operating procedure, requiring no slewing of the excavator, gave workers a noticeable time advantage. At a section of the trench where the gypsum was deepest, the crew advanced more than 16 ft (5m) per day—20% faster than would have been achieved with a traditional drum cutter.

Leonhard Weiss continued to use the chain cutter to slice through gypsum deposits to create new sewer trenches along several side streets.

"So far we have been carrying out our work with the fine results we had expected," Fuchs says.

www.kemroc.de



The chain cutter excavates a trench with the required profile to the required depth. This reduces the amount of material cut and the amount required for backfill, keeping transport costs to a minimum.

New SG7 SurfaceProEdge Grinder from GEC Offers Compact Solution for Variety of Jobs

The new SG7 SurfacePro™ edge grinder from General Equipment Company is an ideal edge grinder for everyone from do-it-yourselfers to commercial contractors. Intended for smaller areas, it can accommodate a wide variety of surface preparation applications, such as leveling concrete and asphalt, with unmatched productivity and versatility.

The heavy-gauge steel frame is ergonomically designed to allow the operator to work in a fully upright position. This greatly reduces the potential for lower back pain, strained knees, or other occupational-related health issues, all while increasing productivity over hand-held grinders.





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Brokk's New Solution to Safely Descale Preheater Towers

The Brokk Descaler is a specially designed solution for breaking out refractory, coating and build-up in a number of areas in the preheater tower, primarily in cement and alumina plants. With a telescopic boom for outstanding reach and remote-controlled maneuvering, the Brokk Descaler revolutionizes the working method for tearing out overhead material in preheater towers.

The hazardous work of tearing out refractory and build-up in cement kilns and coolers has previously put many workers in danger and by using remote-controlled Brokk robots, safety has improved immensely. However, similar issues with overhead refractory and coating has been the case in the preheater towers for years, but with no safe and efficient solution.

There are many advantages for the productivity of the plant with a Brokk Descaler. With a quick installation, faster demolition and no need to install scaffolding the shut down time is notably reduced. And since the Brokk Descaler does not require people to go inside the vessel, work can commence already at 176°F (80°C).

Today, the workers are not only exposed to the risk of falling debris but also the silica dust that gets into the body and skin. Furthermore, the vibration from handheld tools is a known problem and causes "white fingers." The Brokk Descaler places the operators outside of the vessel and therefore, risks like this have either been eliminated or significantly reduced.



The Brokk Descaler evolved from a standard Brokk robot and is modified to fit the application in preheater towers without compromising on power. The telescopic boom is extendable by one or two sections that allows for descaling in vessels up to 31 ft (9.5m) in diameter. The Brokk Descaler is carefully developed to be used for a variety of vessels and is easy to mobilize to any location in the tower as it can be transported in most passenger lifts. Installation can be completed in less than three hours and once installed the operator can safely overview the work from outside of the vessel through hatches, which allows for precise and controlled demolition.

Hundreds of tons of overhead refractory can be removed with zero physical contact and at a much faster pace than doing the same task manually. This ensures high productivity as well as safety for the workers. Ultimately, a safer and more efficient worksite.

www.brokk.com

Concrete Cutters and Corers Need Water!

John Ford Concreting was frustrated with not being able to get a constant pressure water supply for its concrete cutting services when they arrived on site. In order to help solve the problem, the company Makinex introduced John Ford to its Hose2Go constant pressure portable water supply unit. Ford and his team sometimes found that when they arrived on site there was more often than not no access to a reliable water supply for their concrete cutting tools. Rather than waste time trying to find a solution, he decided to find a portable constant pressure water supply unit that provided water where and when it was needed. While researching the options available, Ford team came across the Makinex Hose2Go, a portable water supply unit that provides up to 30 minutes of constant pressure water supply for concrete cutting and coring tools.

"In addition to ensuring my team are never without water for their tools, the Hose2Go has reduced sludge entering the environment," Ford says. "It also helps mitigate silica dust which ensures I have another way of looking after the wellbeing of my team."



Caterpillar TiltRotate System Available for Cat Mini Excavators

Caterpillar Work Tools now has a TiltRotate System (TRS) for Cat Next Gen mini excavators. The new TRS models are designed to multiply the mini excavator's versatility and are available in various configurations to match the application.

The new TRS6 and TRS8 models allow attached work tools, including buckets, forks, grapples, brooms, and compactors, to rotate 360 degrees and tilt 40 degrees side-to-side, enabling the machine to reach more work areas from a single position, while maneuvering tools over, under and around obstructions when excavating, grading ditches, sorting recycle materials or placing pipe. TRS models have a top interface that connects the TRS to the carrier machine, and a bottom interface that connects various work tools to the TRS.

The four configurations for the TRS6 allow the user to choose between an S-Type hydraulic-coupler or pin-on top interface, and, whether the TRS is equipped with an integral grapple (which can be used with a work tool attached). All TRS6 models use an S-Type hydraulic coupler for the bottom interface. The four configurations for the model TRS8 allow selecting an S-Type coupler for both the top and bottom interfaces, or, a pin-on top interface and pin-grabber coupler bottom interface, and whether the TRS has an integral grapple. The pin-on/pin-grabber configuration is not available with the integral grapple.

The compact design of the TRS6 and TRS8 models allow the mini excavator to maintain high digging forces, and a reinforced gearbox with a specially designed bearing ring distributes working forces to reduce stress on the TRS and the host machine. Also, a no-maintenance lubrication system for the rotation system effectively distributes heat. The high-torque rotation system quickly positions work tools, and an integral self-locking mechanism enables digging at any angle required.

An integrated, dealer-installed field control kit, which includes specially designed joysticks, suits all boom-and-stick combinations and provides intuitive control of the TRS and integral grapple. The TRS monitor informs the operator of the attachment's position, and an engagement/disengagement sensor assures that work tools are secured via a safety locking mechanism with an indicator. A bucket-shake feature for TRS8 models, activated by a joystick button, facilitates even spreading of materials.

TRS6 models are designed for the Cat 306 CR mini excavator. TRS8 models using the S-Type coupler for both top and bottom interfaces fit models 307.5, 308, 308.5, 309, and 310. One of the two remaining TRS8 models, using the pin-on/pin-grabber interfaces, is designed for the 307.5, 308, 308.5, and 309. The other model is designed for the 310.



A Battlefield HEAVY

With the Covid-19 pandemic rewriting the rules of everyday life almost on a daily basis, news gets old very quickly. The world as we used to know it seems to have ended, and we all have to deal with a new reality now...at least until the next one arrives. It's a global war, with every nation fighting a common invisible enemy. Fortunately, not even a war can stop progress.

The 352 UHD: a nimble "Cat burglar"

The Cat 352 UHD ultra-high demolition excavator is specifically designed for the demolition of tall structures. The UHD front can be switched for a straight or bent (retrofit) boom position for regular demolition and earthmoving applications in just 15 minutes, with no special tools required. The 352 UHD features a variable-gauge undercarriage and the Cat Active Stability Monitoring system, which continuously informs the operator of the tool's position. In the UHD configuration, the excavator has a vertical reach of 92 ft (28m) and a horizontal reach of 52 ft (15.8m) when operating a 3.7t attachment. Equipped with a longer stick and a 109ft³ (3.08m³)



bucket, the 352 UHD has a digging depth of 22 ft (6.67m) and a maximum reach at ground level of 39 ft (11.88m). The machine is powered by a 408hp (304 kW) Cat C13 engine that meets the EU Stage V/U.S. EPA Tier 4 Final emissions standards. The C13 is also capable of operating on biodiesel up to B20. Three power modes permit the driver to match excavator performance to the task at hand. When using the retrofit boom, the 352 UHD can benefit from the Cat GRADE with 2D grade control system, swing e-fencing and the Cat Payload on-board weighing system. The payload system can be used with VisionLink® (online telematics interface) to remotely manage production targets via the machine's Product Link™ (telematics system). The cab features a falling objects guard structure and includes front and roof laminated glass with a P5A impact rating. The cab can tilt up 30 degrees for optimum visibility. The windshield and roof glass come with one-piece parallel wipers with three intermittent settings with washer spray.

www.cat.com

Doosan launches a new high flyer

Doosan has launched the DX235DM - a precursor of the company's new range of high-reach demolition excavators. Offering a 30-degree tilting angle and excellent

visibility, the new machine is particularly suited to high-reach demolition tasks. The excavator's highlights are a modular boom design and hydraulic lock mechanism on the machine. This allows operators to use the machine for other applications as well as demolition. Thanks to the innovative design, switching between a demolition boom and an earthmoving boom is fast and simple. A special stand is provided to facilitate the boom changing operation. A cylinder-based system helps push the locking pins into place. The multi-boom design also allows the earthmoving boom to be mounted in two different ways. Equipped with a 59-ft (18m) demolition boom, the DX235DM reaches a maximum height of 52.5 ft (16m). With the digging boom in the straight configuration, the DX235DM can work to a maximum height of 29.5 ft (9m). The machine has a hydraulically adjustable undercarriage, which extends to a maximum width of 12.3 ft (3.74m) for excellent stability on demolition sites.

www.eu.doosanequipment.com

Hyundai announces a "game changer"

Hyundai Construction Equipment Europe (HCEE) is introducing the HX220AL, a new 22t Stage V-compliant crawler excavator. Described as a "game changer," the HX220AL comes packed with cutting-edge functions and

Report On HITTERS



technologies. The Electric Positive Flow Control (EPFC) results in improved fuel efficiency and controllability. Auto Safety Lock prevents accidental start of the excavator, which improves safety. Eco guidance indicates "inefficient operation" status to prevent unnecessary fuel consumption. Machine Guidance/Machine Control (MG/MC) indicates the work status and controls the attachment. The MG displays the position of the bucket tip. The MC that controls the grading with the bucket tip features an automatic stop function. Engine Connected Diagnostics (ECD) aids after-sales technicians and dealers by generating diagnostic reports on the engine's performances. Machine Connected Diagnostics enables the user to gather and analyze data on the machine's overall performance.

www.hyundai.eu

Rusch is back with a bang!

Rusch, a Netherlands-based expert in crane boom repair and renowned excavator modifier, is back in the demolition game with its bespoke solutions. Rusch's latest innovation was the RS 7500 Quatro machine built around a Hitachi 1900 excavator a few years ago. Ferma, a US-based specialist demolition contractor, supplied the base machine whose track lengths had been pre-modified according to Rusch's specifications. Following that the Rusch

engineers designed the complete 'Quatro' boom with retrofit boom and subframe to fit the base machine. Originally intended for under-water operation, the RS 7500 had a reach of 92 ft (28m) with a 15t tool, 62.6 ft (20m) with a 25t tool. In the high-reach mode, this giant reached 137.8 ft (42m) and 105 ft (32m) with 15t and 25t attachment respectively. All boom sections fitted on a flat rack for easy and inexpensive transportation. The excavator's control system was also developed and installed by the Dutch company at the contractor's headquarters near San Francisco. The control system was interlocked with Rusch's in-house safety system that safeguarded the excavator against overturning. The customized machine debuted with the demolition of a bridge foundation in Los Angeles.

www.ruschcranes.com



ATLAS sets a new standard in safety with its 1604ZWblue model

Germany-based ATLAS GmbH, a manufacturer of cranes and excavators with a century-long track record, has launched a new railroad excavator, which is said to set a new standard in the operator's safety and comfort. The new 1604ZWblue model boasts a redesigned rigid axle with automatic switchable axle locks, a special feature that results in improved safety and operational flexibility. The excavator's rear axle can be fully locked utilizing an automatic differential lock system in the rail operation

mode. When the rear axle is automatically locked by the switchable differential system, the load distribution is balanced on both sides of the machine. The operational benefit is particularly evident when working "on transverse" tracks, because traction under load can be handled much more accurately and therefore with a much greater level of safety. In addition, the new ATLAS railroad excavators can drive over larger track twists in friction drive operation without the excavator losing traction.

www.atlasgmbh.com



Offers Customized Options for High-Heat Environments



Brokk's heat-resistant features and remote operation increase productivity and safety for maintenance operations, such as ladle cleaning and refractory removal.

Brokk offers specialized, high-heat options, ideal for processing applications. These features are available as part of Brokk's customization during initial purchase or afterwards through the manufacturer's repair and refurbishment services. Equipment customization with heat-resistant options allows facilities and contractors to tailor equipment to fit their specific needs and the unique demands of cement, steel and foundry applications.

The options—cylinder protection, steel tracks, and a forced draft cooling system—are available on most Brokk models, including the Brokk 800P, the manufacturer's 11t specialized processing machine, and can also be added to smaller units, such as the

versatile, 1t Brokk 110 for hot applications in tight spaces. When combined with remote operation, heat-resistant features allow facilities to begin maintenance operations, such as ladle cleaning and refractory removal, while temperatures are still too high for workers to approach, increasing productivity and safety for these vital tasks.

The optional cylinder protection feature employs a metal shield to limit impact and radiated heat from damaging vital components on Brokk's three-part arm. This allows operators to get closer and work longer in high-heat applications while avoiding heat-related equipment breakdowns. Customers can also opt for steel caterpillar tracks, which offer a higher temperature threshold than Brokk's standard rubber tracks. This customization allows the machine to move across hot surfaces, such as those found in a kiln during refractory tear out.

A forced draft cooling option is also available for hydraulic systems and electrical cabinets to help increase the unit's cooling capacity and minimize heat-related breakdowns. The forced draft cooling system is recommended for jobs where the ambient temperature exceeds 113° F (45° C), such as cement or lime kilns. An upgraded forced draft cooling option is available for the breaker, as well, allowing for use in red-hot applications with ambient temperatures above 392° F (200° C).

Brokk also offers heat-resistant hoses, steel outrigger pads, and other specialized high-heat options for the processing industry.

www.brokk.com

Rototilt Releases Second Generation of Rototilt QuickChange

Rototilt has introduced a new generation of fully automatic quick-release systems, Rototilt QuickChange. The new products build on Rototilt's 12-year-old QuickChange, which was located at the bottom of the system. Thanks to an innovative "sandwich" solution, QuickChange is now both at the top and the bottom of the system. In a May 29 product announcement broadcast from Rototilt's new facility in Vindeln, Sweden, development manager, Pär Olofsson, said that the company has been working on a new generation of QuickChange for more than two years.

"The whole work started with an in-depth market research and we studied the pros and cons of existing systems on the market and talked to many users," Olofsson said. "We carefully investigated what was good and what was bad and what we could change to the better."

The development effort focused on



The Rototilt QuickChange.

five goals: eliminate everyday operational disruptions, eliminate the risk of large and expensive operational disruptions, maximize the life of the entire coupling member, comply with all laws and regulations and maintain industry standards, and increase the system performance by as much as 20%.

Underlying the project has been security, a feature that Rototilt already had a head-start with thanks to the award-winning in Secure-Lock system. When the actual construction of the entire system was determined, a series of tests took place.

"We have tested the system in every conceivable way down to the smallest detail in our own lab and out in the field countless times," said Olofsson. "A large number of users have run the system and come up with a number of tips. And now we are ready to become public with the system."

Product manager Sven-Roger Ekström said that the system is being built entirely



Rototilt Group's product manager Sven-Roger Ekström.

in Sweden. As with all other quick coupling systems, QuickChange means that the excavator operator does not have to leave the cab to change tools. In seconds, the operator can quickly and easily change from one tool to another without the slightest risk of leakage or the tool coming loose. An automatic mechanism protects the sensitive parts and the bracket itself, preventing dirt from entering the system. When changing tools, the bracket opens and the tool locks.

To provide additional system protection, springs built into the coupling block any pieces of dirt or metal, eliminating the risk of major operational disturbances.

The entire system is also perceived as very stable by users. One interviewed for the event guaranteed that once a machine owner experiences the new QuickChange products, "you will never be able to be without it. It is simply revolutionary."

The product announcement included a demonstration of the QuickChange HD model, designed for heavy tools. Additional models are also available for lighter tools such as compactors. With the full series of 2nd generation Rototilt QuickChange models now in full production, Ekström said customers are already eager to try out the system for themselves.

"I really believe in this system and that it will replace many standard systems," Ekström said.

www.rototilt.com



From left, Rototilt Group's CEO, Anders Jonsson and Sales Manager (Sweden) Markus Olofsson.

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How Do I Work on the Construction Site With Ease?

A brief handbook for an autonomous construction site - written with the help of MB Crushers customers.

How do I organize a site in the most efficient and cost effective way? That's a question many operators ask themselves before starting a job, or even buying new equipment. Unfortunately, there is no such thing as a magic wand. But there is a concrete way of making work on site easier. At least this is the word on construction sites all over the world, in particular those where they've installed MB Crusher crusher buckets, screeners, drum cutters, grapples, and shaft screeners on their equipment. Here are some guidelines to follow.

Keep the site organized and clean

Effective site management helps eliminate danger and significantly reduce accidents. Benefits of an organized jobsite: more efficient use of space, freedom to move, and fewer accidents on site. But above all, how important is it to choose suitable and efficient tools for the job?

This is what happened in Luxembourg during the construction of the European Union council's new building. Here, a BF120.4 crusher bucket and an MB-S18 screening bucket, were both installed on Kobelco

excavators, crushed and separated the resulting material from the demolished Jean Monnet building to construct the brand new 22-story tower. The MB jaw crusher processed 9,000 tons of demolition material, ensuring a daily production of 500 tons. The MB-S18 screening bucket selected and cleaned the material to speed up the process. A recycling station was practically created on the construction site. The advantages? Reduced waste material hauling costs, an organized and clean construction site without material stockpiles, and the autonomy to produce crushed material.

Improve Logistics

Limiting what gets transported on and off site means saving money and reducing traffic around the job. This applies to construction sites in urban and residential centers and in places in high altitudes where transporting materials and machinery is complicated and above all, expensive. A solution? Install the MB Crusher unit directly to your construction equipment. Which is what a company in Friuli, Italy, did. They were contracted to do different jobs for Civil Protection force and organized a construction site in record time during the COVID-19 pandemic.

The job involved containing an escarpment, where it wasn't possible to build reinforced concrete retaining walls due to the vertical drop of nearly 50 ft (15m). How did they decide to proceed? By removing the previous barrier and building a new one made of wood and stones. There were a few logistical problems. How were they going to



bring the drainage gravel to the construction when the nearest supplier was an hour away? Then, there was another problem. The truck could only arrive 492 ft (150m) from the construction site so they also needed to find a way to transport the crushed stones to its final destination.

By installing an MB-S10 screening bucket to the excavator already present on site, they began to select and clean the material they acquired from the previous barrier, while an MB-C50 crusher bucket crushed the stones. They then screened the material again to obtain regular sized and clean pebbles to make a state-of-the-art drainage system. The result: material ready on site at no additional cost, eliminating hauling expenses, and a drastic reduction in processing time.

It was also easy for a company in Montana dealing with major hauling and supply problems. Before using MB's crusher bucket, they threw away most of the stones from their excavation, since taking them to a disposal center would have been too expensive and would have required downtime. Since they already had an excavator on site, they decided to install a BF120.4 crusher bucket to crush the material and reuse it as a base for road work. What used to take two hours, now only takes 15 minutes.

Recycle the waste material and limit the purchase of new materials

Crushing and separating material on site allows the construction site to be autonomous and free from disposal and transport costs. The job is easy. In fact, the material recycled with MB Crusher products can be immediately reused on site for fill, new construction, and other jobs. Or it can be put back on the market and sold.

This is how a company in Germany thought to install an MB-L200 crusher bucket on its Komatsu WA100 wheel loader. By simply sitting inside the cabin, the operator cleared their site from waste and inert material, and rebar.

They practically created their own recycling center on site, then made it into a new service of their business. In fact, now they also take delivery of other inert materials to be recycled, with their crusher, they sell the crushed material to customers who need aggregate. Not only that, their yard also has the BF120.4 crusher bucket which produces crushed material to use as substrate. A quick and easy solution.

The same can be said with natural rocks, which can be crushed, screened, then recycled on the spot, then reused. All you need is an excavator, an operator, and MB Crusher equipment. With MB Crusher units, material doesn't need to be transported, instead, it's the equipment that produces it on site at the desired output size..

Become autonomous

Recycling the material directly on site also means becoming independent and cutting costs rather than relying on third party services. Before purchasing the MB-L140 crusher bucket, a company in Australia bought the material from an external supplier, but this meant purchasing and hauling expenses, and a longer turnaround, depending on who they purchased the material from. In short, wasting time and money. Installing an MB Crusher unit on a Bobcat turned it into a real crusher. In fact, they now recycle the material from demolished houses and reused it on other construction sites, a method that's required by Australian building permits to prevent contamination. Not only that, they are also building a private road, at no additional costs, by reusing the material as a substrate.

Safety on the job

With the crusher bucket, it is possible to crush the material down to the size you need, and if there is iron, you



collect it and put it in a separate pile. You just need the excavator's operator, who alone can install and operate the unit, he can also adjust the output size, separate the rebar, and provide maintenance to the unit. The jobsite is clean and organized, while saving money. The processing cycle is shortened and there is no need to use additional machinery.

Avoiding extra steps significantly reduces costs, speeds up operations, and thanks to the BF90.3 crusher bucket, a company in Denmark reduced the possibility of accidents. A nice, tidy, and organized yard, with no scattered debris, represents greater operational fluidity. They even crush the material to the right output size for substrates directly onto the bed of the truck in just one easy step.

Lastly, the only thing that can be recommended is to read the instructions carefully before using the equipment. Remember that MB Crusher units are an investment that pays for itself in a short time, does not weigh on the transport costs of the fleet, are simple to use and require little maintenance.

www.mbc crusher.com



Caterpillar Launches New Mini Hydraulic Excavator

The new Cat 306 CR mini hydraulic excavator marks Caterpillar's entry in the 6t class offering. With its long stick option, the 306 CR delivers a maximum dig depth of 162 in (4.1m) and 15,821-lb (7,175kg) maximum operating weight when equipped with the sealed and pressurized cab. Built with a swing boom, this Next Generation mini excavator's compact radius design provides a low 58 in (1.475m) tail swing with counterweight for working close to obstructions.

The 306 CR delivers a lift performance of up to 7,839 lb (3,555kg) at a 9.8 ft (3m) radius. Enhanced uphill swing torque and increased cycle times provide greater productivity and efficiency, according to Caterpillar. The machine's fuel-saving, load-sensing hydraulic system with an electronically controlled variable-displacement piston pump generates 40 gal/min (151l/min) hydraulic oil flow. High flow rate of 24gal/min (90l/min) to the auxiliary circuit enables operation of even the most demanding hydromechanical attachments. Complete with quick-disconnect lines, the standard auxiliary hydraulic system provides one-way, two-way, and continuous flow.

The Cat C2.4 turbo diesel engine rated at 55.9 net hp (41.7kW) powers the new 306 CR mini excavator and meets U.S. EPA Tier 4 Final/Stage V emission standards. It features a power-dense design and delivers consistent performance

through a wide speed range. Automatic engine idle and shutdown features help to save on fuel consumption.

The sealed and pressurized cabin lowers in-cab operating noise levels to 72 dB(A) and is heated and air-conditioned to elevate operator comfort regardless of outside temperatures. The cab's roll over protective structure, tip over protective structure and top guard combine to promote a safe working environment for the operator. Offering the ability to set personal operating preferences, the Next Generation LCD monitor provides easy-to-read machine information, jog-dial for simple navigation and standard Bluetooth capability. The monitor gives the operator critical operating details such as fuel, coolant temperature, hour meter, performance and machine adjustments, and maintenance and machine monitoring.

Operators can switch from conventional lever/foot-pedal steering controls to the standard Cat exclusive Stick Steer system. Stick Steer provides operator control with less effort to advance operating simplicity and comfort. The pattern changer allows operators to select their preferred joystick movement for controlling the 306 CR. Straight blade, angled blade and extra tool carrier configurations expand the flexibility of the 306 CR. Featuring ample travel, above and below grade operation, float function, and "dig-to-blade" operation, the



machine's blade efficiently handles loose material in backfilling and grading applications.

The new 6t class 306 CR shares common components with models in the Cat mini excavator line to lower repair cost, decrease service time and reduce repair parts inventory. Major machine structures – upper and lower frames, track frames, boom and sick – are modeled after its larger Cat excavator counterparts for long-term durability. Recessed to protect from damage in the field, robust flat side panels offer long service life and quick, easy replacement to lower owning and operating costs. Ground-level access to maintenance checkpoints offers access, while enhancing worker safety. Grease intervals help to shorten the daily service routine. The 306 CR also features an extended filter service life.

www.cat.com

PRM Develops World-Leading Solution to Ensure Physical Distancing

PRM Engineering Services of Australia has found a solution to ensuring physical distancing using the latest in artificial intelligence (AI) technology that detects pedestrians and alerts safety breaches in real-time.

Sentinel VISION AI uses cameras, machine-learning and information input algorithms that detect humans or parts of a human and trigger both visual and audible alarms. Originally developed to monitor the safety of workers and pedestrians around heavy machinery and mobile plant, Sentinel VISION AI can be adapted for public spaces enforcing distancing regulations.

As more public spaces begin to reopen and people return to work, public spaces such as retail, parks, gyms, offices, and public transport are facing the challenge of adapting physical distancing measures without having the necessary resources to effectively monitor each person's movements.

PRM Engineering continues to develop leading-edge technology grounded on firm knowledge, experience, and the needs of advanced safety software in a range of working environments.

The PRM Group of Companies has been providing safety solutions, hydraulic service expertise and niche excavator attachments to top construction companies and OEMs for more than 20 years.



Vacuworx Offers Faster, Safer Way to Handle Precast, Prestressed Concrete

When an industry leading precast company wanted a faster, safer way to handle precast, prestressed double tee beams, Vacuworx provided a smart solution. With a lift capacity of 35 tons, the new CC-TT Computer Controlled Double Tee Vacuum Lifting System offers an alternative to using anchors and chains, and eliminates the need for personnel to climb on stacks or ladders to set dunnage.

Based on the time-proven design of the company's popular RC Series, the CC-TT is designed with a multi-function computer operated remote control system with touch screen that provides real-time operation and diagnostic information including vacuum pressure (reservoir and pads), fuel level, battery status, and more. Closed-circuit cameras allow unobstructed views to enable precise pad placement. Variable pad positions ensure even lifting and avoidance of key stress points.

The CC-TT system is powered by a diesel engine and is designed to work with mobile or stationary gantry cranes. Pads are specially engineered to accommodate the weight and size of double-tee beams. Each pad is equipped with a sensor to confirm that the load is engaged. The system can also be modified to handle other precast structures or steel.

vacuworx.com



Management and Organization of Darda GmbH Reorganized

Darda GmbH, manufacturer hydraulic demolition equipment and world market leader in the field of rock and concrete splitting equipment, has grown steadily in recent years. The company is now taking advantage of the new requirements brought about by this positive development and is reorganizing itself. In a first step the company Brokk DA GmbH was founded at the beginning of this year. As an exclusive partner, it has taken over from Darda GmbH the sales and customer service of Darda equipment and Brokk demolition robots in Germany and Austria.

In addition, the management of the premium manufacturer Darda has also been reorganized. Since July 1, Burkhard Darda has been the sole managing director responsible for the company's activities. And he has been supported by Bernd Ströbele.

"The spin-off of Brokk DA GmbH provides us with free capacities and thereby enables us to focus even more on our core competencies - namely product development and production of special demolition equipment", Darda says. "With our strong resources bundled in this way, we are able to react to market changes and industry requirements and to optimize our products accordingly. This applies in particular to the quality of our equipment, which we are consistently developing further to offer our customers a strong service and benefit experience," explains Burkhard Darda.

Another strategic decision is the reorganization of the customer center.





DEMOLITION Today

DemolitionToday - The New Digital News Channel for the Global Demo- lition Industry

PDi and PDa Magazines are taking a new step in the publishing industry by launching the online news channel DemolitionToday.

The Covid-19 pandemic has hit the world very hard, but it has not been without some positive adaptations. The pandemic has made people and companies to find new ways to communicate. Since March this year we have seen plenty of digital examples built around Microsoft Teams, Zoom, and GoToMeeting, to name a few. It has also made PDi and PDa Magazines take a completely new step in widening its channels to reach its globally audience.

That's why PDi and PDa Magazines are jointly launching a YouTube-based news channel called DemolitionToday, which will broadcast brief news shots on a regular base. The information is collected from the content published in the magazines. Ini-



tially, episodes of DemolitionToday will air monthly, with plans to provide more frequent updates once a special recording studio is in completed. Each episode of DemolitionToday is between 5 to 8 minutes, and loaded with the latest news from the industry. There are also commercial slots in between the news section. The plan in the future is also to make longer documentaries about manufacturer and contractors in the industry. The longer documentaries will be called DemolitionToday Special.

The DemolitionToday episodes can be found at www.demolitiontoday.tv or directly on the YouTube channel DemolitionToday. In addition, episodes will be available for viewing on Facebook, Instagram, and LinkedIn, and shared with many online interest groups.


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Comprehensive Wire Saw System

More than 20 years ago, Hilti launched the first electric wall saw with 6.7 hp (5kW) of power. This was the start of a journey that saw the company play its part in shaping the future and progression of wall sawing.

Hilti's development work was driven by weight, ease of connectivity and increased productivity. In order to increase productivity even more, Hilti created and introduced its industry renowned Cut Assist Technology that negated the need for a heavy separate convertor box (E-box). In the near future additional tools will be added to include advanced Cut Assist Technology and wireless remote control.

10kW and 20kW wall saw range and diamond blades

The 10kW wall saw, equipped with Cut Assist Technology, provides excellent mobility, with the DST 10-CA being the ideal solution as far as weight and operating in space reduced environments are concerned. Due to its efficiency, it transfers 10.7 hp (8kW) as a power output thanks to the Hilti Traction Control system, resulting in a cutting depth capability of up to 15 in (380mm). Connectivity to a 16A plug makes it a highly versatile tool that can be deployed on any construction site around the world.

The 26.8-hp (20kW) wall saw, also equipped with Cut Assist Technology, provides great productivity with 30% more power and three times the starting torque that results in the DST 20-CA providing excellent performance. With the only integrated convertor box in its size class, the machine is easy to transport, avoids long set up times, and has wireless remote control that indicates all the cutting parameters, providing ease of use for the operator. The saw draws its power from an

industry standard 32A plug, and coupled with a 60% reduction in weight compared to its predecessor, the machine can cut to a depth of more than 28 in (730mm). The Hilti Equidist diamond saw blade line is designed to work with the company's wall saws. The technology used ensures optimal cutting performance using precise distribution of the diamonds in the blade. Combined with Hilti's precision tensioned blade, it provides the extra performance required on any job site.

Three electric standard wire sawing systems

Originally, wire sawing was proposed as a solution for cutting natural stone for more refined quality compared to blasting or breaking half a century ago. Now wire sawing is appreciated to be an ideal solution for cutting complex and multiple structures in any material, no matter where



Standard and bespoke wire saw range.



Wall and Floors From Hilti



DST 20-CA in action.



DST 20-CA in action.



Wall saw blade equipped with Equidist

it is cut. Over the decades Hilti has developed what it says is the most extensive range in the world which now includes both standard and bespoke wire solutions, providing complete synergy to its diamond tools.

Hilti's current off the shelf solutions consist of three electric versions, plus a range of bespoke solutions. On both standard and bespoke solutions, the tensioning of the diamond wire is done through a pneumatic system, ensuring optimal tension.

The 13.4-hp (10kW) DSW 1005-E wire saw gives great versatility and convenience, allowing the user to



DSW 1005-E / DS WS15 / DSW 3018-E in action.

undertake small jobs on miscellaneous small jobsites, with its easy set-up making it convenient for these kinds of applications. The 20-hp (15kW) DS WS15 wire saw provides users with the opportunity to perform at a consistently high level on demanding controlled demolition job sites. Its ease of set-up and operations allows operators to gain maximum efficiency and includes its own compact wire storage system.

When output and performance become vital on a job site the 40-hp (30kW) DSW 3018-E wire saw offers a unique machine solution providing high levels of productivity while remaining compact. This "top of the range" standard wire machine is able to cut heavily reinforced concrete and steel with what Hilti says is unbeatable performance.

Accessories in addition to standard range

Hilti's partners sometimes face challenges that can usually be solved with the company's standard range of accessories. Sometimes however they require additional accessories in order to make the machines perform even better. Hilti accessories include pulleys for plunge cutting (cutting concrete without having access from the bottom/back), flexible pulley systems to reduce the angle of attack and facilitate set-up, and additional wire storage with an optional cooling system for dry cutting. There's also a dust collection system for dry cutting concrete.

In addition, Hilti also offers solutions that have been developed to service the requirements of different industries whose needs cannot be met with standard machines. To meet these specific customer requirements, Hilti has thus developed innovative bespoke solutions which come with many advantages for users. This of-



Examples of Hilti bespoke solutions.

ten results, says the company, that its customers often experience a 100% increase in cost efficiency during serial cutting applications.

From a safety point of view, an important non-standard bespoke solution is its wire guards that improve operator safety. These reduce the risk to the operator both from a health and safety perspective as well as making the equipment more user-friendly as the equipment is made easier to handle, requiring close to no training. In addition, operator intervention is reduced with advanced Cut Assist Technology and closed-loop wires that ensure that there are no wire breakages, hence no operator intervention.

The bespoke machines are said to outperform conventional technology by a factor of up to 10 as every solution is 'made to measure', meaning that there are no limits to the possibilities whether the application is nuclear, oil and gas or any other application.



Optimum diamond wires for wire sawing

The wire range is the most extensive range available as Hilti offers all available technologies sintered with a newly updated range, electroplated and vacuum brazed wires). On top of that, the company has developed a specific range for its high-power DSW 3018-E standard saw and its bespoke solutions, which uses unique double-layer vacuum brazed wire.

Whatever challenge faced, Hilti is ready to provide either off the shelf or bespoke solutions to help its partners to make their jobsites as efficient as possible. Hilti also offers extensive services through its unique Fleet Management program.

This provides finance and additional service elements such as repairs at a fixed cost as well as the opportunity to borrow tools in order to allow partners to continue working when their machine is being serviced.

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Bespoke Diamond Wire Saws



Photograph courtesy of Aerocircular®

Bespoke Diamond wire saws made to exceed all your needs in complex decommissioning environments.

Across the different industries there are different needs and challenges that cannot be satisfied with standard machines. For these applications Hilti has a dedicated team that develops made to measure bespoke machines.

The combination of fully remote controlled operation, with a high tension wire system and a closed loop wire gives the operator piece of mind, reduces the risk of jamming and wire breakage and prolongs the wire life thanks the advanced Cut Assist that controls amongst other things, the angle of attack, the wire temperature and the cutting speed. The machines come in any size requested. Whatever your requirements are, cutting in multiple directions, machine and or cutting table moveable on rails, LAN connection for remote programming, dry cutting, special paint (e.g. for harsh nuclear or offshore environments), ... are just a few of the many different choices available.

Whatever challenge you have, Hilti is ready to provide either off-the-shelf or bespoke solutions to help our partners to make jobsites as efficient as possible.