

PROFESSIONAL DEMOLITION AMERICAS

Your Gateway to North, Central and South America

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Postal address:
 Riverbends Publishing, LLC, PdA Magazine,
 P.O. Box 552, Nokesville, VA 20182, USA

Phone: +1 703 392 0150

E-mail Editorial Office:
 editorial@pdamericas.com

Web Site:
 www.pdamericas.com

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EDITORIAL STAFF

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

Editor-in-Chief: Jan Hermansson
 jan.hermansson@pdamericas.com

Assisting Editor-in-Chief
 Anita do Rocio Hermansson
 anita.hermansson@pdamericas.com

Editor North America: Jim Parsons
 jim.parsons@pdamericas.com

Editor South America: Luiz Carlos Beraldo
 luizcarlosberaldo@gmail.com

Junior Editors: André Hermansson
 andreviniciusgogola@gmail.com

Vitor Hermansson

vitor@live.se

CORRESPONDENTS

Andrei Bushmarin
 andrei.bushmarin@pdworld.com

Mikael Karlsson
 mikael.karlsson@pdworld.com

SALES

Sales Director North & South America 1
 Darren Dunay
 Riverbends Publishing, LLC, PdA Magazine
 P.O. Box 119, Westwood, NJ 07675, USA
 Phone: +1 201 781 6133,
 Fax: +1 201 664 1829
 darren.dunay@pdamericas.com

Sales Director North America 2
 Andrei Bushmarin
 Phone: +7 921 949 27 81
 andrei.bushmarin@pdworld.com

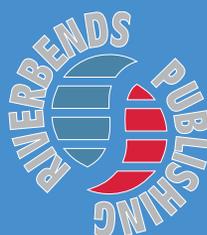
Sales South America 2
 Eduardo Kubrick
 Phone: +55 11 999494544
 eduardo.kubrick@pdamericas.com

Sales Europe and rest of the world
 Phone: +46 8 585 700 46
 sales@pdamericas.com

Publisher
 Jan Hermansson

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 Jeff Lambert, Executive Director,
 US National Demolition Association.
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Age-Related Limitations Need Not Become Liabilities

It's hard to believe that 50 years have now passed since astronauts first landed on the moon, particularly if, like me, you're of "a certain age" and remember watching it happen. You may well have been similarly wrapped up in that "space age" hoopla, perhaps even dreaming of growing up to become an astronaut yourself one day.

Well, if you're reading PDa, chances are that career path didn't happen. And it's nothing to be disappointed about. Not everyone is cut out to be stuffed inside a capsule atop a giant rocket, and hurled hundreds of thousands of miles into the unknown, with your very survival dependent on intricate mathematical calculations and, as astronaut Alan Shepherd once observed, parts supplied by the lowest bidders.

Whether it was by interest, aptitude, or necessity, each of us found our way to the careers we have now. Hopefully we've each learned a lot, managed to pay the bills, and develop an enjoyment—if not outright passion—for what we do, and doing it well.

But what would happen when you couldn't do your job anymore? Not the result of an accident or economic upheaval. What if mind and spirit are willing, but the body simply cannot answer the bell?

For many workers of that "certain age," that question looms larger with each passing day. It's hardly news that construction-related occupations—the ones we focus on in PDa—are physically taxing, accelerating the normal wear and tear a body sustains from having been around for several decades. And even if one has avoided injuries and followed all the recommended lifting and bending practices, faculties such as eyesight, hearing, reaction time, balance, and others rarely measure up to what they were "back in the day."

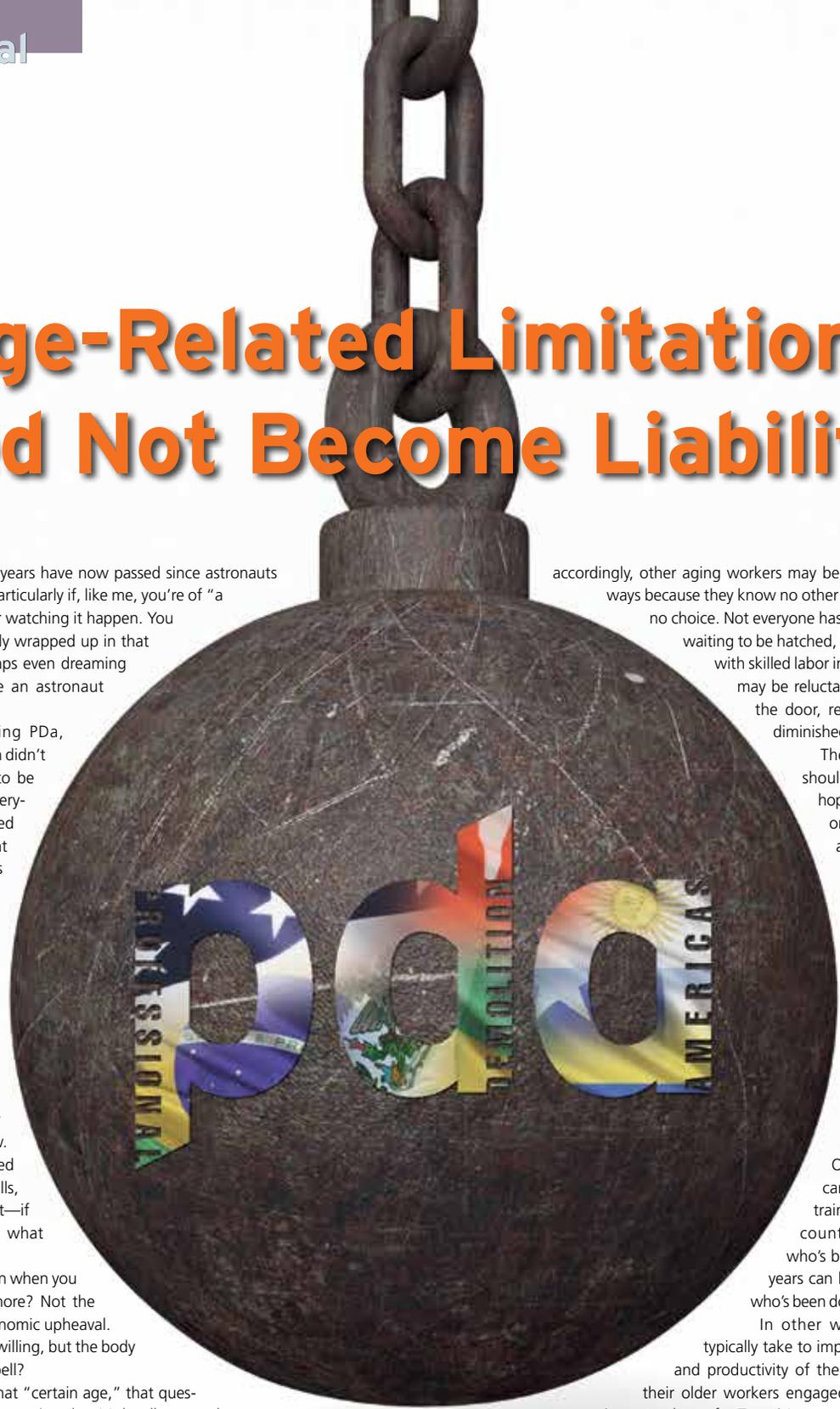
While many of us may recognize our limitations and revise lifestyles

accordingly, other aging workers may be reluctant to change their ways because they know no other way, or because they have no choice. Not everyone has a retirement nest egg just waiting to be hatched, after all. At the same time, with skilled labor in short supply, a contractor may be reluctant to let anyone walk out the door, regardless of that person's diminished abilities.

The last thing a contractor should do is cross fingers and hope for the best. Any physical or sensory limitation creates a safety risk, not just for the older worker, but for others on the jobsite as well. Planning out jobs and ensuring that responsibilities match with abilities and limitations will go a long way toward preventing accidents, as will investing in equipment designed to reduce strain, noise, and other factors that can quickly age someone out of a job. Older workers' knowledge can also be tapped to help train or mentor their younger counterparts. Even someone who's been on the job "only" ten years can learn something from one who's been doing it exponentially longer.

In other words, steps contractors typically take to improve the safety, efficiency, and productivity of their activities can also keep their older workers engaged, productive, and—most importantly—safe. True, it's one more factor that has to be plugged into an already complicated equation for a contractor's operation. And some issues may defy simple solutions. But being proactive is the best way to ensure that the work gets done, the business prospers, and everyone gets home safe at night—tonight, and for a lot more years to come.

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







Starting with this issue of PDa Magazine, we are happy to submit an editorial column from the US National Demolition Association. This column is written by National Demolition Association's Executive Director, Jeff Lambert.

National Demolition Association Advocacy Updates

To highlight NDA's legislative and regulatory efforts for our members, the association's new Demolition NOW podcast provides analysis of government affairs issues impacting the industry along with engaging interviews of industry leaders and government officials to provide members need-to-know updates. In the first half of the year, Demolition Now has featured NDA President Chris Godek on his recent trip to the European Demolition Association (EDA) Study Tour in Japan, Government Affairs Committee Chair Denis McGarel on the objectives and outcomes of NDA's Washington Fly-In, and US EPA Region 5 Representative Jon Grosshans on opportunities for collaboration with NDA and resources for contractors on funding and compliance.

In addition, Demolition NOW discussed opportunity zones and the role of demolition with Scott Turner, executive director of the White House Opportunity and Revitalization Council; Joe DeFelice, regional administrator for Region 3 of the Department of Housing and Urban Development; and Michelle Christian, regional administrator for Region 3 of the Small Business Administration. A future episode will feature interviews with representatives from Department of Transportation to discuss infrastructure and regulations on the drug and alcohol clearinghouse for CDLs.

Recently, NDA submitted comments to federal regulatory agencies on a number of issues facing the industry, including comment to the Federal Motor Carrier Safety Administration supporting an exemption request from one of the criteria for using the "short-haul – 100 air-mile radius driver" exception to the requirement for the preparation and retention of records of duty status.

NDA, in conjunction with the Construction Industry Safety Coalition, submitted written comments in mid-June in response to the Occupational Safety and Health Administration's request for information on powered industrial trucks. Additionally, NDA submitted comments to the U.S. Department of Labor on the proposed update to regular rate requirements. The proposed updates to the regulations attempt to clarify joint employer status for purposes of wage liability under the Fair Labor Standards Act. NDA will be submitting comment on a possible update to the Control of Hazardous Energy Lockout/Tagout (LOTO) standard. The agency is interested in comments on the use of control circuit-type devices to isolate energy, as well as the evolving technology for robotics.

Finally, NDA plans to submit comment on the anticipated RFI on Table 1 for crystalline silica.

On the legislative front, in May, the House Committee on Energy and Commerce considered legislation to "prohibit the manufacture, processing, and distribution in commerce of asbestos and asbestos-containing mixtures and articles." The bill is sponsored by Rep. Suzanne Bonamici (D-Ore.) with 34 co-sponsors. NDA submitted written comments for the record. While the Energy and Commerce Committee held a hearing, the committee has yet to hold a vote. More information on these and other efforts is available at demolitionassociation.com/advocacy.

www.demolitionassociation.com



US National Demolition Association's Executive Director, Jeff Lambert.

ASV and Yanmar Announce their Merger

Construction equipment manufacturers ASV and Yanmar have finalized details of their merger agreement. Combining ASV's compact track loaders and skid steer loaders with the compact equipment portfolio of Yanmar creates a comprehensive and global provider of compact equipment with virtually no overlap in distribution networks. The ASV employee base, its manufacturing and distribution facility, international distribution network and supply chain will be a key part of Yanmar's long-term international growth plans.

ASV's Chairman and CEO Andrew Rooke calls Yanmar "a strong strategic buyer" for his company. "Yanmar shares our vision to provide the highest-quality products, values the long legacy of ASV, and is committed to supporting its employees and distribution partners," Rooke says. "The merger will create a strong platform for growth and expansion, bringing together two leading brands with similar cultures and creating value."

Giuliano Parodi, Executive Officer of Yanmar Holdings, added that the addition of ASV acquisition will significantly bolster Yanmar's compact offerings in the loader segment.

"With its highly-skilled workforce and quality CTL/SSL lineup, ASV is a great fit for both Yanmar's focus on quality, and our growth and expansion plans in the North American and global markets," Parodi says. "It will create a comprehensive and global provider of compact equipment with virtually no overlap in distribution networks."



are excited to have his energy and industry experience to provide support for our customers and sales team on a national scale."

Keeling has a lifetime of experience in the concrete cutting and construction industry, including experience with Husqvarna, Volvo Construction Equipment, and Hilti. He served as executive vice president for Magnum Diamond & Machinery, his family-owned concrete saw and diamond blade manufacturing business, where he gained an in-depth understanding of the concrete cutting and demolition industry. After the family manufacturing business was sold to DIMAS, now Husqvarna, Keeling worked with his father in their own heavy equipment sales business, Precision Demolition.

A resident of Olathe, Kan., Keeling holds a Bachelor's degree in personnel administration from the University of Kansas.

www.brokk.com



Brokk Appoints First Business Development Manager

Brokk has appointed Jeff Keeling as its first business development manager. Keeling transitioned from the role of Brokk's mid-western regional sales manager to the new position earlier this year.

Along with working with regional sales managers to develop and grow the Brokk brand in key segments across the US and Canada, Keeling also heads educational initiatives aimed at helping customers maximize their Brokk machines' potential.

"For six years, Jeff has fostered relationships with customers in the Midwest, helping Brokk grow into new markets and territories," says Peter Bigwood, Brokk vice president of sales and marketing. "Now, we

Epiroc USA Moves HQ to Suburban Denver Tech Hub

Epiroc has relocated its U.S. headquarters to Broomfield Colo., joining a dynamic business community representing the technology, manufacturing and packaging sectors in a tech corridor known as the "Rocky Mountain Silicon Valley." The move to a technology hub is a natural one for Epiroc, which provides innovative drill rigs, rock excavation and construction equipment and tools, along with service products and solutions. Epiroc focuses on delivering world-class technology solutions for automation and interoperability. The new space enables Epiroc to better facilitate customer events. Epiroc also expects the relocation to help with employee recruitment, provide better access to amenities, and offer transportation efficiency for more than 70 people who work at the location.

www.epiroc.us



Demolition Austin Set for February 2020

Demolition Austin, the 2020 edition of the National Demolition Association's annual convention and expo comes to the Austin, Texas, Convention Center on February 22-25, 2020. Demolition Austin's headquarters hotel will be the Fairmont Austin, conveniently connected to the Convention Center.

NDA's annual convention & expo annually attracts more than 1,000 demolition professionals from across the country to build relationships and strengthen practices within the industry. Many of the industry's leading players have already confirmed plans

to exhibit at the show, including Brokk, Caterpillar, Husqvarna, Indeco, Kinshofer, Shear Core, Steelwrist, and many others. PDA magazine will be exhibiting as well.

One of the convention's most popular features, the Live DEMOLITION Event, returns to Texas Disposal Systems on February 23. Attendees can test equipment or tour the Exotic Game Range, home to more than 2,000 mammals, reptiles, and birds. Registration and hotel reservations for Demolition Austin open in early October.

www.demolitionassociation.com



GSSI Names to Amber Onufer Technical Sales Support Team

GSSI is pleased to announce the hiring of Amber Onufer to its Technical Sales Support team. She will support GSSI's Geophysical, Environmental, and Transportation Infrastructure teams. With a B.S. in Geology, Onufer has more than seven years of experience with ground penetrating radar technology. In prior roles, Amber provided consultative sales, customer training, applications engineering, and research and development. She has consulted with clients on a variety of academic and U.S. Geologic Survey projects, including the Charleston, S.C., earthquake study; well water identification in Kenya; and the UAV Geophysics Regatta. She has also participated in ground penetrating radar training at Lawrence Livermore National Laboratories, and NASA shuttle launch station facility maintenance.

"GSSI is thrilled to welcome Amber to the company," says Paul Fowler, VP of Sales and Marketing. "Her unique background combining technical sales and support in concert with direct industry experience will prove invaluable as the company introduces new products into the geophysical and transportation infrastructure segments of our business."



Talbert Cuts Ribbon on Expanded North Carolina Facility

Talbert Manufacturing opening the 58,000-ft² (5,388-m²) expansion of its facility in Liberty, NC. facility. Now totaling 120,000 ft² (11,148 m²), Liberty Trailers LLC will manufacture Talbert's Tag-A-Long Series, Traveling Axle Series, and Hydraulic Tail Series trailers. The Liberty facility was originally home to Ferree Trailers, which Talbert purchased in 2014. Ferree served a loyal following of customers in industries including transportation, construction, military, government, and special OEM companies, producing a wide array of trailers. Four years later, Talbert began expansion of the building and staff as part of its overall growth plan. The expansion also houses two state-of-the-art painting booths, overhead cranes, and a large finishing area. Equipment and staging areas were designed for optimum flow throughout the manufacturing process, allowing Talbert's production at Liberty to grow, even past its current goals, while maintaining the high degree of safety, durability and resale value that are the pillars of the Talbert brand.

www.talbertmfg.com



Several Talbert representatives were on hand for the ribbon-cutting, including President Andrew Tanner, Co-Owner Russ Stern, Vice President of Sales and Marketing Troy Geisler, Vice President of Operations Jim Hall, and Vice President of Purchasing Jamie Myers.

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Event Calendar

Concrete Show Brazil 19

Aug 14-16, 2019
São Paulo Expo, São Paul, Brazil
www.concreteshow.com.br

Demtech India 2019

Nov 13, 2019
Hotel Sahara Star,
Mumbai, India
www.demtech.in

World of Concrete 2020

Feb 4-7, 2020
Las Vegas Convention
Center, Las Vegas, USA
www.worldofconcrete.com

Demolition Austin 2020 National Demolition Association Convention

Feb 22-25, 2020
Fairmont Hotel, Austin, Texas
demolitionassociation.com

Conexpo-Con/Agg 2020

March 10-14, 2020
Las Vegas Convention
Center, Las Vegas, USA
www.conexpoconagg.com

ISRI 2020

April 25-30, 2020
Mandalay Bay, Las Vegas, USA
www.isri2020.com

CSDA 2020 Convention & Tech Fair

March 10-14, 2020
Carlsbad, Ca, USA
www.csd.org

Samoter 2020

March 21-25, 2020
Verona, Italy
www.samoter.it

Construction Employment Increases in Most Metro Areas as Demand Continues to Outpace Supply

Construction employment grew in 250 out of 358 US metropolitan areas between April 2018 and April 2019 according to a new analysis of federal employment data released today by the Associated General Contractors of America. Association officials said construction employment in many parts of the country likely would have been higher if firms could find more qualified workers to hire.

"Demand for construction is steady or rising in most parts of the country, and many

contractors are adding workers when they can find them," says Ken Simonson, AGC's chief economist. "At the same time, many firms report they would have hired even more employees if only they could find enough qualified workers."

The Phoenix-Mesa-Scottsdale, Ariz., area added the most construction jobs during the past year (16,600 jobs, followed by Dallas-Plano-Irving, Texas (9,200 jobs); Los Angeles-Long Beach-Glendale, Calif. (8,400 jobs); Atlanta-Sandy Springs-Roswell, Ga. (7,000 jobs); and Las Vegas-Henderson-Paradise, Nev. (6,800 jobs). Fifty-three metro areas reported declines in construction employment during the 12-month period, led by Charlotte-Concord-Gastonia, N.C.-S.C. (-2,600 jobs); Baton Rouge, La. (-1,800 jobs); Hartford-West Hartford-East Hartford, Conn. (-1,600 jobs); and Longview, Texas (-1,300 jobs). AGC officials said that even though construction employment continues to expand in many parts of the country, workforce shortages remain problematic for many contractors eager to keep pace with strong demand.

"One reason relatively few young adults choose to pursue rewarding careers in construction is because not many of them are being told it is an option to consider," says Stephen Sandherr, AGC's chief executive officer. "We have a lot of contractors looking for workers so they can keep up with the amount of work that is out there."

Doosan Bobcat Announces New Leadership and Expanded Global Organizational Structure

Doosan Bobcat, a global leader in the compact equipment industry, today announced the appointment of regional presidents and a new global organization and leadership structure. In this organizational structure, the newly created global groups – engineering, procurement and strategy – will work across all regions to fully integrate and leverage the power and scale of the company.

Mike Ballweber, the new president of Doosan Bobcat North America, has been with the company since 1998, and has served as senior vice president of commercial for Doosan Bobcat North America since 2016. Ballweber replaces Doosan Bobcat CEO Scott Park, who has served as interim president of North America since September 2018.

Ballweber's experience includes serving as president of Doosan Portable Power from 2013 to 2016, and he was vice president of product management and strategy and vice president of aftermarket and product support for Doosan Bobcat North America. He holds a Bachelor's degree in marketing from Minnesota State University at Moorhead, and a Master's degree in business administration from Indiana University.

Gustavo Otero, Doosan Bobcat's new president for the Europe, Middle East, and

Africa, joined Doosan Bobcat in 2015 and most recently served as region vice president of Compact and Telehandlers. He has an extensive 15-year background in the global construction equipment and automotive industries. Otero earned a Master's degree in industrial engineering at Universidade de Vigo, an executive MBA from IESIDE Business Institute, and a PDD from IESE Business School Universidad de Navarra.

Doosan Bobcat announced additional senior leadership roles to lead the expanded global structure and help enhance and streamline the company's focus on engineering, procurement, and strategy globally.

Troy Kraft, new senior vice president of Global Engineering, has led engineering for Doosan Bobcat North America for nearly 12 years. He is responsible for global compact equipment product development, product safety and international standards. Kraft's career in the compact equipment industry spans 30 years, and he has served as a key member of the Doosan Bobcat engineering team for decades. He holds a bachelor's degree in engineering from North Dakota State University.

Alvaro Pacini, senior vice president, Global Procurement, is responsible for global procurement functions including regional governance and commodity strategic management. He has an extensive, 30-year background in the construction equipment and automotive industries, including experience in operations, strategy, sourcing, supply chain and total quality management. He holds a mechanical engineering degree from the Universidade São Francisco in Brazil, and an MBA in industrial administration from INPG in Brazil.

Kraft and Pacini join Youngmin Kwon, senior vice president, Global Strategy & Operational Excellence/Total Quality Management, as members of the Doosan Bobcat global function leadership team. Kwon has responsibility for global corporate and manufacturing strategy and total quality management throughout Doosan Bobcat. Joining Doosan Group in 2000, he has more than 25 years of industry experience and earned a Bachelor's degree from Yonsei University, and an MBA from the University of Illinois.

www.bobcat.com



Gustavo Otero.



Troy Kraft.



Alvaro Pacini.



Mike Ballweber.



Youngmin Kwon

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Break

To everything, there is a season—a time to build, and a time to tear down. And if you're dealing with is concrete, you want the toughest, most powerful breaker available to make quick work of that old material, and get a head start on that building process. Here's what's new on the market in terms of hydraulic breakers.

Whether you attended Bauma 2019 or just followed the action from your home and office, there are plenty of new and upgraded breakers and related products with features designed to maximize efficiency and value by the day, and throughout the year. They'll help you make break time the most productive time of all.

New Cat® GC S Series Hydraulic Hammers Increase Efficiency and Lower Costs

The new Cat® GC S Series top-mount, hydraulic, silenced hammers from Caterpillar Work Tools—models H115 GC S, H120 GC S, H130 GC S, and H140 GC S—are specifically designed for hydraulic excavators with operating weights from 13t to 40t. The new GC S Series models combine optimum power-to-weight ratios with design simplicity to ensure reliable performance, versatility, ease of use, convenient maintenance, and cost-effectiveness in a range of applications—including municipal, general construction, demolition, quarry, and mining. As a package solution, Caterpillar designed hydraulic kits are available to provide an exact hammer-to-machine fit for Cat models, ensuring

optimum performance. The gas-fired operating cycle delivers a constant reliable performance, maximizing hammer efficiency. An automatic shut-off feature provides blank-firing protection by stopping the piston from cycling internally when no material is under the tool. Eliminating blank firing protects the hammer by reducing internal stress and heat, which results in lower overall owning



and operating costs. As a standard feature, GC S Series hammers feature a protective, enclosed housing, designed to lower the noise level for the operator, as well as for the overall job site. The hammers' top-mount design increases impact power by ensuring that hammer force and stick force are consistently in line. The top-mount style also provides a larger work area and enhances visibility for the operator. A further benefit of the design results from the top-mounted bracket transferring considerably less force into the end of the stick, reducing both potential bending stress and overall impact on carrier structures. Hammer speed/frequency can be easily adjusted to match specific applications and materials to provide optimum productivity.

www.caterpillar.com

Furukawa Rock Drill extends FXJ hydraulic breaker series

Furukawa Rock Drill's FXJ series hydraulic breakers is the synergistic result of more than 50 years of experience and continuous developments combined with today's technology. Two new models will be introduced at bauma 2019: the FXJ 225 and FXJ1070. One of eight FXJ models, the FXJ1070 replaces the F100XP, adding an extra .5t in weight and with more impact energy, as well as durability and the lowest lifetime ownership cost in the range. Thanks to improvements of its in-liner systems, and various other patented solutions, the new FXJ breakers offer an increased power to weight ratio. A weight reduced breaker with higher impact energy results in larger breaking power, with less maintenance with minimum downtime and easy handling. A wider range of oil flow allows the breaker to be used with various excavator sizes.

A new mono block design eliminates the need for through bolts, resulting in higher performance and more stability. The FXJ series is ideal for use on demolition sites, or as a production breaker at a quarry, with the slim design increasing the efficiency in trench and channel works. Both noise and vibrations are also reduced by the newly designed dampening system. The high production quality combined with new mono block construction, and newly designed rod retaining pins ensures individual components last longer, greatly reducing overall maintenance costs. The new models offer the standard features found on Furukawa's previous breaker range, such as anti-idle blow, adjustable piston stroke, connections for a central greasing system and underwater operation, dust intake prevention, and many more.

www.frdusa.com

Hammer Acquisition Puts Kinshofer in the Breaker Business

Kinshofer's January acquisition of Hammer SRL gives the company an immediate presence in the hydraulic breaker market. The 14-model KFX Series deliver 150-900 bpm on breakers with operating weights ranging from 8t to 220t. Separate adjustable values allow users to adjust both blow frequency and working pressure. The 9-model single-piece

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KSB Series produce 600-1,100 bpm on .5t-121t excavators, and work with nitrogen inertial energy recovery. Special sealing rings on the floating support mean the nitrogen charge life can be increased by up to 300%.

www.kinshofer.com

Montabert's SC 36 Breaker Spotlights Series' Success

One of Montabert's nine SC-Series breaker models, the SC 36 hydraulic breaker features fully-enclosed sound-proof cradles to minimize harmful vibrations, limit jobsite noise, and protect working parts from dust and debris. Designed for use with skid steer loaders, backhoe loaders, and

mini-excavators weighing 1-15.5t, the SC 36 produces 1,550 bpm using Montabert's 3-in (76-mm) diameter blunt, pyramidal, and chisel point tools. The tool has an operating weight of 805 lb (365 kg), and impact energy of 1,000 lb (4,448 N). The SC Series is very tolerant to back pressure, and compatible with all existing hydraulic systems with the use of internal pressure regulation. A

simple “plug and go” process means no extra components or complicated adjustments are needed. The SC hydraulic distribution will automatically adjust the breaker working pressure, enabling optimal function. With few wear parts and no tie rods for simplified routine maintenance, SC Series breakers are also compatible with all quick couplers, and meet all adaption requirements for a variety of carriers.

www.montabert.com

Rammer Celebrates 40 Years With Updated Excellence Line and Telematics

To celebrate 40 years of excellence and reflect changing customer requirements, Rammer has renewed both its outlook and product offerings. This has led to the updating and upgrading of its Excellence Line of hydraulic hammers. Following on from the launch of the Performance Line of hydraulic hammers earlier in 2018, Rammer has launched the updated and upgraded Excellence Line. One of the key features is that safety is endemic to the operation of the range, no matter if the hammer is being used in quarry, demolition project, tunnel or any other application. To reinforce this commitment, all models feature reflective stickers that remind users of the importance of working safe, and helping colleagues do the same.

One of the major features of the Excellence Line is Rammer’s purpose developed RD3 remote monitoring device, a first of its kind on hammers. RD3 uses the MyFleet Telematics service to track and monitor fleet equipment usage without the need of going to the site to collect the data, being ideal for dealers, rental companies and operators. This cloud-based system enables the hammers to be viewed and monitored in Google maps. The main benefits of the system are that it enables owners and managers of fleets to know exactly where their equipment is, and how it is being used. This facilitates better business decisions through providing improved security and optimized fleet location, while also enabling enhanced application knowledge and operator education, all accomplished via GPS data. This helps the tools contribute to the owner’s overall profitability and efficiency. The Excellence Line reflects Rammer’s developing customer focused outlook through having a host of other new features. Lower tool bushing rotating and replacement on the field increases lifetime of lower tool bushing, which contributes to reduced operating costs. This is further reflected through the use of two tool retaining pins that increase the lifetime of the tool and retaining pins, as well as increases the lifetime of the tool bushings. An IBP on/off selector is fitted to the valve body enabling easy field adjustments (2577E and up). Separate greasing channels from the valve body to the upper and lower tool bushing further increases tool and tool bushings lifetime. Rammer’s Excellence Line continues the company’s 40-year tradition of delivering innovative hammers designed to improve profitability, safety and performance. With their new customer focused features, the line perfectly represents Rammer’s developing outlook in assisting businesses enhance their performance.

www.rammer.com

Promove Celebrates 30 Years of Customer Satisfaction with New XP60 Breaker

On November 23, 1989, Promove began a long and ambitious journey, driven by the bold intuition of the founding partners. They had the foresight to see great opportunities in the Precision Mechanical Industry district in Puglia. The



last 30 years have seen amazing technological advances and many companies emerged, that made the demolition sector very diversified and increasingly competitive. “We made a bold choice many years ago by accepting a challenge in a tough and critical environment,” says Promove president Rachele Capurso. “Everything started in a small workshop. The first Promove breaker was born here and it was a great success.”

Today all components are in-house made, through advanced CNC machinery and high technology, assuring maximum precision and finishing of all the surfaces. All phases of product realization – from 3D design through sophisticated parametric software to the choice of raw materials, from assembly to testing and packaging – are carried out with extreme care. This allows Promove to achieve high standards. The latest example is the XP60, an extremely innovative 132-lb (60-kg) hydraulic breaker for .6t-1.6t excavators. Delivering up to 950 bpm, the machine works with a working pressure range of 1,450-1,595 psi (100-110 bar), and a flow rate between 2.5 and 4 gallons/

min (10 and 15 liters/min). It’s equipped with .5-in (12.7-mm) lubricant inlet and outlet bushings, with a maximum back pressure of 363 psi (25 bar). The secret to contain so much power in such a small and tiny body is the internal monoblock structure without tie rods. Thanks to the unique mix of power, lightness and reliability, the XP60 has been designed to be the perfect solution for a wide range of applications, with Promove quality standards.

www.promove.com

Brokk’s New Hydraulic Breaker Series

The new Brokk Hydraulic Breaker (BHB) series is perfectly matched with the company’s full range of remote-controlled demolition robots. In essence, each robot is designed from the attachment backward, providing the exact amount of flow, pressure, backpressure, and downward force that the hammer requires, which offers the best possible demolition performance to Brokk customers. The BHB series includes eight breaker models, from the 50kg BHB 55 breaker for the Brokk 60 machine, all the way up to the 700kg BHB 705 for the recently introduced Brokk 500 and Brokk 520D. The attachments are lightweight and compact, yet feature power similar to larger, heavier breakers from other manufacturers. The hammer bodies are machined from a solid casting, eliminating side and through bolts, along with the side plates found

on many other hammer designs. An integrated, side-mounted accumulator holds a nitrogen gas charge for as long as a year. Brokk demolition robots and breakers are designed to work at maximum performance together, resulting in more total demolition power. This includes reduc-

ing back pressure and optimizing machine oil flow, oil pressure, and down pressure to allow for more hydraulic power while using less energy.

www.brokk.com

New Tunnel Version of Epiroc Solid-Body Breakers

Epiroc has developed application-specific versions of its 694-lb (315-kg) SB 302 and 992-lb (450-kg) SB 452 solid-body breakers for the rigors and challenges of underground environments. The breakers are designed for 4.5t-13t excavators, and feature a new stainless-steel piston that offers longer life while additional casing reinforcement will stand up longer to rugged operating conditions. Special features keep dust and debris out of the machine’s inner workings.

www.epiroc.com



BATTERY UP:

HILTI INNOVATIONS BOOST CORDLESS TECHNOLOGY

Big-time trade shows are great forums for equipment manufacturers to make announcements and roll out new products, but there's nothing like having the industry spotlight to one's self, especially when there is so much news to share.

That's why Hilti North America invited construction journalists to Irving, Texas, in early June for the company's annual Innovation Day, an opportunity to introduce a variety of new products during a time when most other manufacturers are catching their breath from the hectic winter and spring demonstration circuit, and making plans for what is sure to be a hectic 2020 with both World of Concrete and Conexpo on the horizon.

Fine-tuned operations give increased competitiveness

As this year's venue, the Irving Convention Center, was figuratively around the corner from Hilti's Western Hemisphere Product Development and Tool Service Center, the journalists learned about the products mere hours after they were unveiled to Hilti's sales teams and other employees. Rafael Garcia, for Hilti North America's senior vice president of marketing, credited the company's close contact with customers for inspiring many of the new



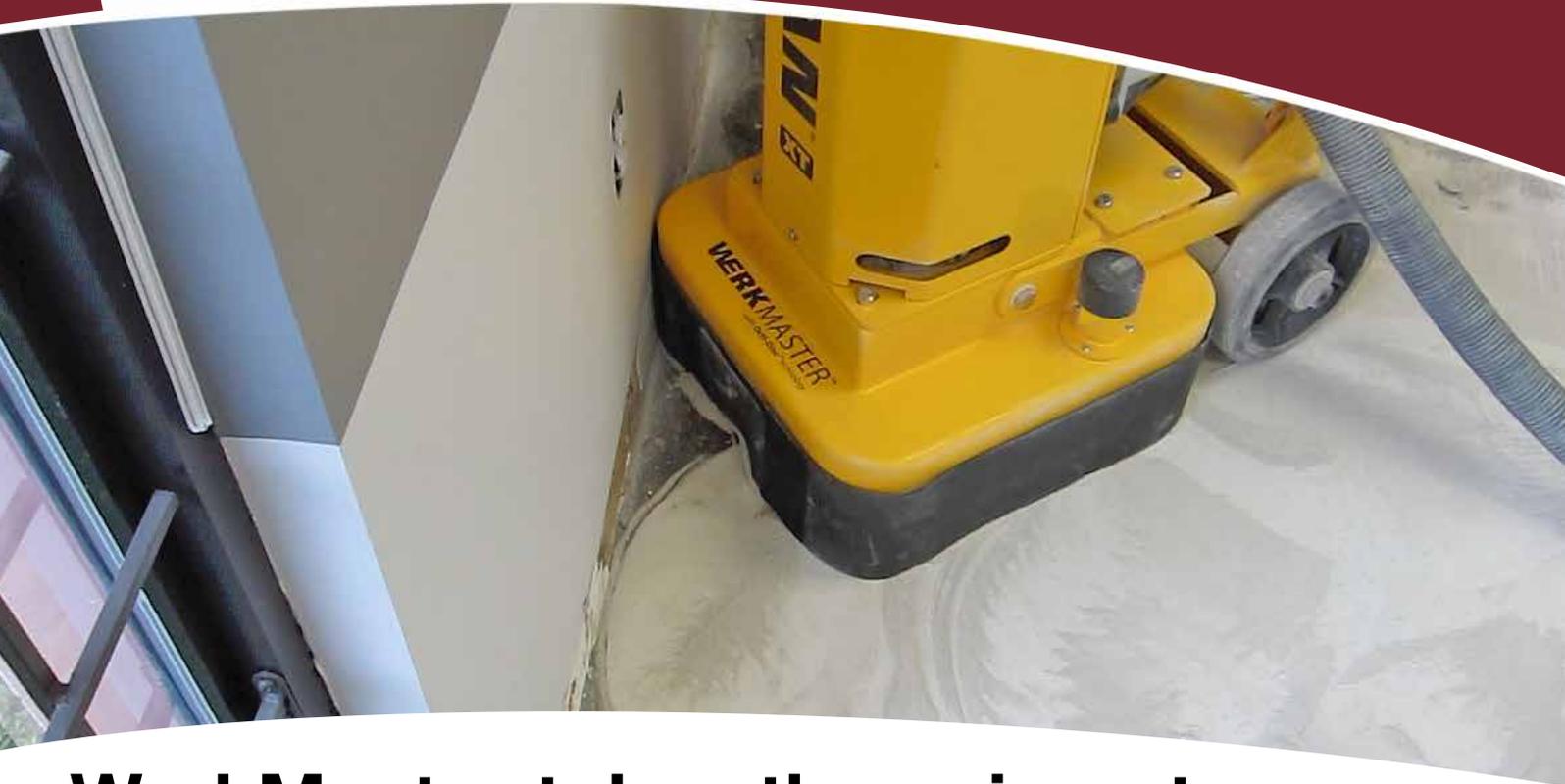
Rafael Garcia, Vice President of marketing for Hilti North America, welcomed journalists to the Hilti Innovation Day.



products. Garcia added that, as with other equipment manufacturers, Hilti is also focused on identifying ways for contractors to seamlessly collect data that can be used to help fine-tune their operations and, in turn, their competitiveness. He cited the example of the US automobile industry, which has made great strides in boosting quality over the years through formal processes to develop, document, and refine ideas to trim waste and inefficiencies. "Construction hasn't had this," Garcia said.

Still, the first question most contractors will ask any

manufacturer about a new piece of equipment is typically, what does it do? In the case of Hilti's new DCH 300-X wet/dry cutting saw, the answer is, quite a bit. With top-mounted industry-standard connections for both water supply and vacuum systems, the electric DCH 300-X is designed to conveniently and quickly switch between both types of cutting. The slim machine has a cutting depth of up to 4.75 in (120.6 mm), while the built-in depth gauge and wheelset combine with unique push-style ergonomics to make cutting easier and more accurate.



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Go cordless with Hilti

Another Innovative Day emphasis was cordless technology, the result of the company's significant investment in battery technology.

"We do our own design, then work with manufacturing partners to build them," explained business unit leader David Walker.

For its 22V products, Hilti has developed new 4Ah and 8Ah batteries that minimize weight and heat while providing longer-lasting service. With the new models, Walker added, the company will gradually phase out its 3Ah and 5.2 Ah batteries. Similarly, Hilti's new cordless DGH-130 5.6-lb (2.5 kg) variable speed pro grinder for walls and ceilings features a palm-style grip directly above the head, making it easier to maneuver and control, reducing shoulder strain in the process. An adjustable hood makes it easy to work the DGH-130's 5-in (127 mm) diamond cup wheels into corners and edges along both walls and ceilings. The DGH can also serve as a concrete finisher. An innovative tool-less connector enables users to swap out cup wheels in seconds.

For other types of grinding, Hilti demonstrated a new 4.5-in (114.3 mm) AG 4S-A22 cordless angle grinder that features a brushless motor and a variable speed dial for 3,500-8,500 rpm, allowing users to handle cutting, grinding, smoothing, and finishing tasks across a variety of materials—stainless steel, aluminum, brass, copper, titanium, concrete, and other mineral surfaces.

As part of its mass cordless rollout, Hilti has made

sure its cutting and grinding wheels are optimized for those types of tools. That includes the new Ultimate SPX wheels, which feature specially designed self-sharpening ceramic grains that substantially extend the wheel's life. Cutting wheels are available in sizes from 4.5 in to 7 in (114.3 mm to 177.8 mm), while grinding wheels range from 4.5 in to 9 in (114.3 mm to 228.6 mm).

Other cordless innovations included the SR 30-A 36V reciprocating saw, and the SIW 9-A impact wrench, which uses a unique dual-hammer impact mechanism to get more from its 590 lbf (800 Nm) of torque than larger, corded hammers, and with less vibration.

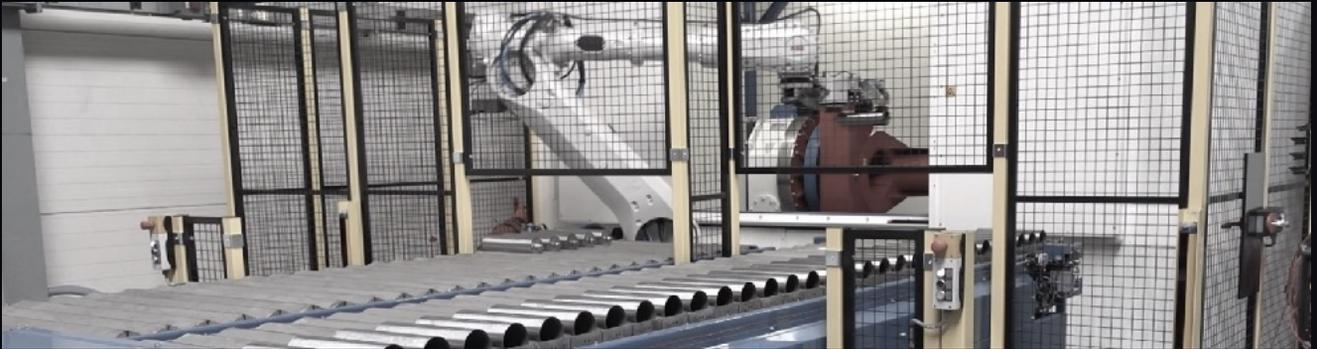
To make sure concrete cutters and drillers stay clear of embedded rebar, Hilti's latest detection tool, the PS 300 Ferroskan, analyzes both the location and size of rebar up to nearly 8 in (200mm) deep. Powered by a 12V batter, the device's five scan surfaces can track up to 1.5 ft (457 mm) per second. Don't think that this mid-year product roll-out pre-empts any additional debuts when the 2020 trade show season rolls around. Garcia noted in his closing remarks that Hilti remains on a hiring binge, adding field staff to not only provide customer support, but facilitate input on other innovations currently at various points in the development pipeline.

"It's a continuous process of that relies heavily on customer experience and feedback," Garcia said. "They're the ones who tell just how good our products are, and how we can make them even better."

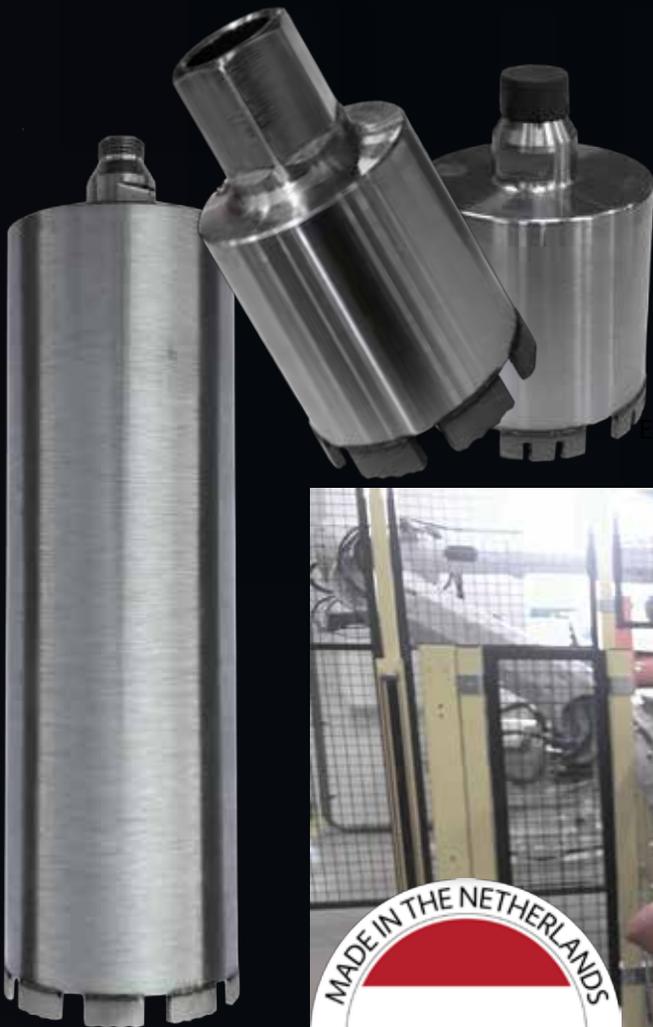
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Brokk MMB326 Hydraulic Drifter Rock Drill Improves Productivity and Safety in Cramped Jobsites

Brokk's new MMB326 hydraulic drifter rock drill attachment from TEI Rock Drills seamlessly pairs with the Brokk 300 demolition robot, allowing for drilling multiple sizes of holes — up to 3 in (76 mm) — in concrete, rock, and compact soil. The attachment is manufactured with a lightweight, compact TE326 drill head featuring patented technology to improve longevity and productivity. At just under 30 in (372 mm) long, the MMB326 delivers 200 lbf (987 N) of impact energy at 3,480 blows per minute. The drill also produces 250 lbf (1,112 N) of torque and reaches rotation speeds of up to 250 rpm, which makes it a more accurate and faster alternative to jackleg drilling through brick, concrete and rock. The combination also eliminates fatigue caused by operating the heavy manual tools and promotes safety by allowing operators to stand farther away from the drilling site.

The drill head itself (TE326) is a versatile hydraulic drifter that incorporates TEI's patented Automatic Stroke Adjustment (ASA) technology. The high-frequency and smooth operation prolongs the drifter and tool life, increasing productivity and profits for the user by reducing downtime and parts costs. Additional features, such as variable rotation speeds up to 250 rpm, help to minimize the risk of jamming, while the reversible rotation motors deliver high torque to ensure powerful drilling. Designed to be used in conjunction with the Darda C20 Splitter for rock-breaking applications, the MMB326 uses a 360° positioner for drilling in a variety of positions. The attachment can be used with a manual centralizer for rock drilling or with a hydraulic clamp for extension drilling and roof bolting. It's available in 5.9-ft (1.8-m) or 7.8-ft (2.4-m) mast lengths. The MMB326 attachment is a ready-to-use option that doesn't need to be modified before configuring to a Brokk machine. The attachment can be integrated directly with the Brokk controls, allowing workers to operate the Brokk and MMB326 simultaneously. The drill attachment is quieter than pneumatic handheld alternatives, allowing construction crews to use the equipment in locations governed by noise-control ordinances, such as in and around apartment buildings, high-rise towers, and other residential areas.



Trevi Benne's New MA Series of Processors

Trevi Benne of Italy introduced Bauma visitors to a new generation of universal processors, the MA Series. The expression of perfect productivity and efficiency, the MA Series is a perfect match of power in demolition, fast opening/closing cycles, and reliability. Five models are available, from the 4,189-lb (1,900-kg) MA 18 up to the 24,251-lb (11,000-kg) MA 65. Available with Combi and Swiss Kit, the MA Series is the perfect equipment for any demolition process—from the demolition and crushing of concrete structures to cutting reinforcing rods and metals. Trevi Benne's display also showcased the model MA 25 model with Combi Kit, for a total weight of 5,953 lb (2,700 kg).

www.trevibenne.it



Kinshofer's New Low-Maintenance HPXdrive System

Kinshofer's HPXdrive system forms a new generation of grab technology with greater performance and longevity. HPXdrive features two shafts that run opposed and have a helix thread, hydraulically driven by a single piston. This design gives the HPXdrive a longer lifecycle and allows it to deliver full and constant closing force throughout the entire open and close cycle. The HPXdrive system is compatible with Kinshofer's multi-purpose grapple, demolition and sorting grapple, clamshell bucket, timber or rock grapple, and NOX-Tiltrotator, as well as for special attachments like the forceps grapple. The

HPXdrive system delivers full closing force from the beginning of the process, when the shells are in the open position, to the end, when shells are closed. The constant closing force ensures optimal strength and powerful penetration even in tough soil or while handling heavy material. Operators will also experience improved gripping capabilities and precise positioning due to the high constant closing force.

Additionally, all moving parts in the HPXdrive continually run through a self-lubrication oil bath. This leads to a long service life with very little wear and tear and required maintenance, resulting in a minimum 50% longer lifecycle compared to conventional hydraulic attachments.

www.kinshofer.com



Epiroc Presents New Products at the Bauma Mega-Show

Epiroc has expanded its hydraulic tools line with additions aimed at increasing user productivity and maximizing investment, including pulverizer jaws for combi cutters with the introduction of pulverizer jaws for the CC 3100 combi cutter. Fitted with Epiroc's coupling and positioning system (CAPS) which makes it easy to switch between jaw types on site to suit the work at hand, the full jaw range consists of universal (U), steel cutting (S), and pulverizer (P) jaws.

In addition, a new CC 1600 combi

cutter model designed for carriers in the 13t-23t class features two powerful hydraulic cylinders with integrated speed valves for minimum cycle times and low fuel consumption. Fully protected by piston rod guards, the cylinders deliver virtually constant closing force that remains high even when the jaws are almost closed. Two jaws moving independently eliminate displacement forces on the cutter and the carrier, ensuring controlled demolition of unstable concrete walls, regardless of which jaw attacks the material first.

The MG multi grapple range has been redesigned to make it even more robust. To allow even better customization, the grapples can now be ordered with or without rotation device to enable operation of the base units in combination with tiltrotators. A new cutting wheel option is available for the ER/ERC 50-ER/ERC 3000 transverse drum cutters to quickly cut trenches with widths of 2.1-9.8 in (55-250 mm), and a depth ranging from 5.9 in (150 mm) with the ER/ERC 50, up to 27.5 in (700mm) with the ER/ERC 3000.

The latest in smart surface and underground mining

The "My Epiroc" platform, available via the web and mobile devices, offers new features for increasing fleet efficiency and safety. For safe and productive mechanized pipe roofing, the Boomer E2 hydraulic face drill rig eliminates manual handling of drill rods and umbrella pipes. This system improves productivity by providing an enhanced overview from the service platform near the actual work, with the pipe roofing system designed to benefit the whole operation. Leading developments in sustainability in mining through battery-powered, zero-emission equipment have been developed for a safer and healthier underground working environment. These include second-generation rigs for face drilling, production drilling, and rock reinforcement, as well as loaders and mine trucks.

Other developments

The Mibilaris position-based decision support system for tracking and finding equipment, vehicles, personnel, and overseeing infrastructure in real-time matches the increased capabilities of the DM series of drills equipped with RCS lite. This new version of the rig control system (RCS) boosts the efficiency and productivity of the DM30 II, DM45, DML, DM-75, and DM-M3 models with three levels of software and hardware system.

Epiroc's new Powerbit underground

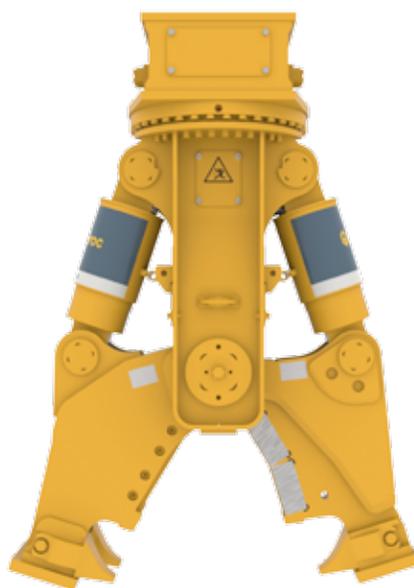


drill bit range for topammer drilling is said to use the company's hardest steel. New head and bits include the new Coprod head and bit technology, which include a complete range of Powerbit drill bits that feature a more effective head with fewer parts. For drillers, this means easier handling, better hole quality, increased penetration rates, lower fuel consumption, and greatly improved productivity.

A new series of down-the-hole hammers - COP M6, COP M7 and COP M8 - are based on an upgraded technology concept to enable miners to drill larger holes without the need for a larger rig. Epiroc has also introduced its "a bit smarter" concept, a set of digital solutions that turn consumables into smart, connected components using customer data and the latest wireless technologies.



www.epiroc.com





New Bucket Screener Series From Epiroc

Epiroc has widened its extensive portfolio of hydraulic attachment tools with a range of bucket screeners. The new BS 1600 and BS 2200 have service weights of 3,770 lb (1,710 kg) and 5,401 lb (2,450 kg), respectively, and combine the best of modern design and sturdy construction. Hydraulic power is transmitted to the basket via a timing belt that doesn't require tensioning, with this reliable transmission solution delivering optimum torque and reduces maintenance time.

"The large diameter of the main roller

bearing enables us to fit a much longer basket, compared to other screeners on the market," says Gordon Hambach, global marketing manager for Epiroc hydraulic attachment tools. "The bigger screening area gives significant increase in performance and ensures high quality output."

The basket features a polygonal design, with 12 sides rather than a smooth rounded surface. This shape enables the material to be shaken in a very effective way to speed up the screening process. The material then passes through hex-

Powered by Ramplifier, New Rotar RCC Crusher

At Bauma, Rotar introduced its new RCC Concrete Crusher with Ramplifier®, a new technology it that doubles cutting power from 5,076 to 10,153 psi (350 to 700 bar). Designed for heavy industrial demolition, the RCC is ideal for jobs involving thick concrete with reinforcements (bridges, parking garages etc.), particularly when the user wants to simply break down concrete before it is moved on to be pulverized or taken away to be crushed elsewhere. Wear-resistant replaceable teeth slide on with just four screws, while longer rebar cutting blades make it easier to align the jaw with the area to be cut. The cutting blades are also adjustable with shims to achieve the correct gap. And because the RCC operates at lower oil temperatures, sealing components last longer. Fuel consumption and back pressure are also reduced.

www.rotar.com



agonal openings in the mesh enabling high quality aggregates to be produced from rocks, crushed concrete and recycled material straight on the job site. Depending on needs and requirements, customers can choose from baskets with mesh size openings, ranging from .78

to 3.1 in (20 mm to 80 mm). The new Epiroc Bucket Screeners are available in two sizes, for carriers between 18t to 38t, with high resistant steel construction ensuring a long lifetime in harsh working environment.

www.epiroc.com

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Simex Showcases New Product Developments

Simex offers a range of equipment for applications that include road maintenance utilities installation, recycling, demolition, quarrying, mining, and tunnelling. Organized into 25 product ranges Simex's 80 models are the result of sustained efforts in R&D, optimization of industrial processes, and continued investment. Simex has also started construction of a new plant that will allow the company to increase production and expand its sales network in North America and other parts of the world.

Simex's newest models include the updated RW 500 wheel saw and the RS 16, an attachment designed for creating rumble strips, with the adaptability to perform two additional functions. These features make it a unique 3-in-1 attachment. The Simex family of TF cutter heads includes the small but powerful TFC 100, which can be mounted on 2.5t to 4t mini excavators, and the TFC 50, designed for mini excavators weighing 1.2t to 4t. Both the models can excavate their entire width thanks to a system with central chain that leaves no areas unmilled, enabling the attachment's working capacity to be exploited to the maximum.

The cutter heads have proved adept in nursery and forestry applications, such as cutting trunks and roots, while the attachments are ideal for digging small trenches on rocky terrain, and excavating small manholes or utility vaults for water and utility lines. The TF 50 and TF 100 cutter heads can also be used for milling walls in prefabricated concrete or for removing plaster. Because of the weight and size of the prime movers they are coupled to, they have proved useful in the refurbishment of civil and industrial buildings, an application where their low noise levels are appreciated.

www.simex.it



German Kemroc Presents Attachment Line at Bauma

For the past 15 years, German attachment manufacturer Kemroc has designed and produced special tools for use on excavators, backhoes, and skid steer loaders. With these specialist attachments controlled from joysticks in the cabin, operators are better able to carry out complex tasks under conditions that can be difficult and tight for space.

Kemroc displayed many of its attachments at Bauma 2019. Developed in cooperation with Schönberger Bau GmbH, a specialist foundation engineering company, Kemroc offered its contribution to the Schökem process for the in situ creation of soil/cement structures. A milling attachment fitted with a mixer chain works its way into the ground while mixing a cement suspension. In this way, without a need to transport huge volumes of material or exchange the soil, solid load bearing soil/cement structures are created in the ground.

Kemroc has also expanded its existing product range and added completely new attachments for milling and cutting. This includes the expansion of the range of patented chain cutters that are used for excavating deep excavations and trenches.



The ES 110 HD is the latest model to be added to the successful range of multi-purpose attachments.



Below: The new Schökem method in action.



Diamond cutting attachments are a completely new product from Kemroc.



Applications for the new EK 110 chain cutter include trenching and tunnelling.

The range of multi-purpose attachments with exchangeable cutter drums and wheels of various designs has also been extended.

A completely new product on display was the diamond cutter wheel attachment that enables mid-sized excavators to work in a completely new range of applications. A major benefit of this development is the ability to work in tight spaces in demolition and renovation projects.

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New Products from ARDEN EQUIPMENT

Arden Equipment has launched its 'all in one' hydraulic quick hitch, the AIO 50. This attachment is designed for the quick coupling of excavators with various hydraulic attachments such as tilt ditching buckets, Arden tiltrotors, sorting and demolition grabs, or even hydraulic concrete crushers as well as concrete and metal shears. It allows instant and direct hydraulic connection from the cab, with hydraulic hoses connecting simultaneously within ten seconds, and is designed to fit excavators from 20t to 26t.

Additionally Arden has expanded its range of demolition shears with the CU042 and the CU008. The CU042 has the identical weight of its predecessor, the CU3500, but is more efficient thanks to its more powerful cylinders and its new kinematics. The CU042 has increased power of 17%, and a jaw opening width increased by 18%. The CU008 is designed for excavators from 1t to 13t, while the CU007 is suitable for excavators from 8t to 11t. This new shear now completes Arden's full range of demolition shears which now covers excavators from 2t to 70t.

Arden has also incorporated a technology booster to the demolition shear CU031, which brings integration with a single booster that supplies pressure to two cylinders up to 10,152 psi (700 bar). This new booster technology uses compact cylinders to reduce the cycle time and increase the efficiency of the equipment. It also reduces the weight by 220 lb (100 kg) while maintaining the same destruction force.

Arden has also launched the QA Series 3. These quick couplers are equipped with presence sensors that inform the operator by an audible and visual signal that the QA is set up and that the locking mechanism is properly engaged. The operator can thus be sure that work can be undertaken safely without having to leave the cab. In addition, Arden has presented its AVP Arden vibratory plates, which are designed to be mounted on excavators from 2t to 40t. These plates have been designed to facilitate the compaction of hard to reach areas such as trenches or mounds. Unlike conventional compaction machines, the pressure exerted and the high compaction power of the vibrating plates increase compaction power.

The new Arden TiltRotor, a multidirectional quick hitch, allows 40° tilt in all directions with telescopic cylinders and a 360° rotation. This system increases the



versatility of the machine by eliminating additional equipment on site. The TiltRotor can be monitored with a joystick directly from the cab which allows the operator to perform work without systematically moving the machine, and thus reinforces the safety of operators on site.

Arden's Rail Grab, which allows rail handling, has been designed to make it easier to take rails back onto the stem below the rail top without leaving a trace on the rail. This avoids any breakage risks and makes sure the rails remains fully operational. The common base with ballast loaders designed for railway applications offers a flexible and economical solution.

Lastly, Arden has extended the Arden Jet Technology high-pressure water spray



system for its hydraulic rock breakers for carriers from 0.8t to 100 t. This tool is particularly useful in demolition, earthworks or even quarry work where dust is generated.

www.arden-equipment.com





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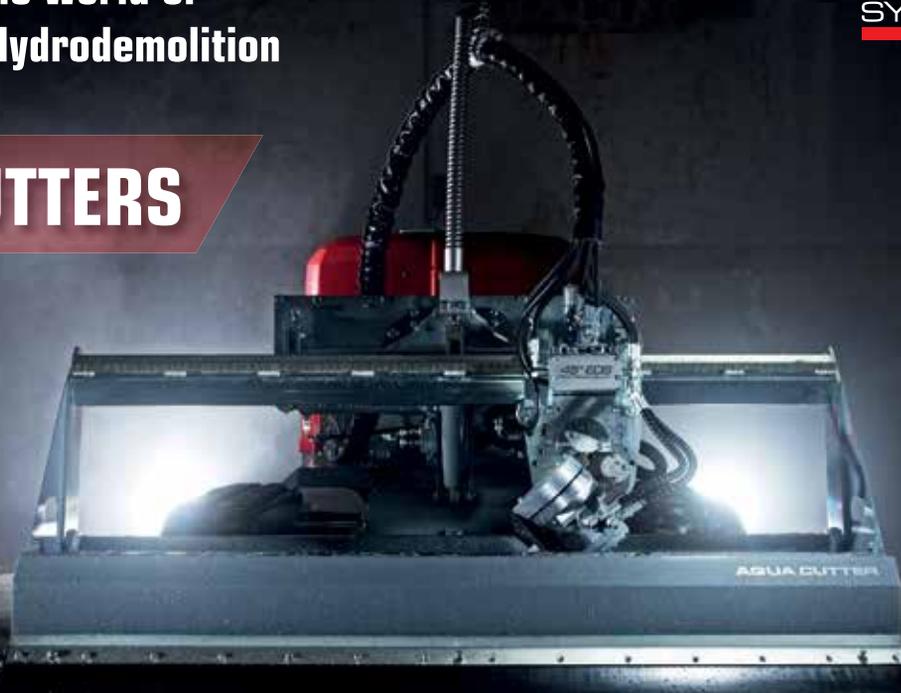
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Present Tenants

Contractor uses high-tech hydrodemolition robot to handle renovation of active parking garage.

Panoramic views of the Ohio River from 25 stories up. To the west, bird's-eye perspective of peaceful Eden Park. Beyond that, beautiful downtown Cincinnati. A rare placid scene in the heart of the bustling city of 300,000. It seems nothing could blemish the setting for the residents of one of Cincinnati's sought-after luxury condos.

Except, perhaps, the clatter of 20-odd handheld breakers. Such was the concern of a luxury condo complex when it became necessary to renovate the high-rise's deteriorating parking garage. The project would require extensive removal of damaged concrete, work traditionally accomplished by handheld pneumatic tools. Renovations such as this have developed a negative reputation for bombarding surrounding neighborhoods with dust, noise, and extensive disruptions. Because the complex is an active building, the contractor, Structural Systems Repair Group (SSRG) of Cincinnati, would be challenged with completing the renovation on time and budget while minimizing common construction disturbances, such as dust and noise. Additionally, SSRG would need to find innovative ways to manage potential interruptions to accommodate the active parking garage, as well as skillfully navigate complex phasing to allow residents to continue using the garage during construction. A tall order, even for an experienced contractor. The project began in February 2018 with concrete repairs finishing up at the end of January 2019. To ensure their portion of the project was completed on time, SSRG carefully developed a 10-phase repair approach using hydrodemolition to maximize efficiency, while allowing tenants to continue to use the parking garage. This quick rehabilitation schedule left little time for downtime and inefficiency.

High-tech solutions

After fully assessing the parking structure, SSRG discovered a sizable amount of deferred maintenance that needed to be addressed, adding to an already ambitious renovation. SSRG estimated 480 yd³ (367 m³) of repairs spanning 30,000 ft² (2,787 m²) of surface area were needed, with certain levels of the structure requiring over 60% replacement. To complete the project on time, the contractor needed to implement a highly efficient technique — hydrodemolition.

"There was not just a little damage here and there — the scale of this project was huge," says SSRG vice president

Brad Rogers. "The extent of the damage in combination with it being an active building drove our choice to use hydrodemolition. It's cleaner, quicker, and less noisy than traditional methods."

The contractor purchased an Aqua Cutter 710 hydrodemolition robot from Aquajet Systems AB in January of 2017. The machine uses high-pressure water to remove damaged and deteriorating concrete while allowing the operator to maneuver the machine remotely — out of harm's way. Representatives from Aquajet Systems trained SSRG employees on the machine before their first hydrodemolition job.

An uphill battle

Before work could begin, SSRG had to plan project phasing to ensure the garage remained functional for the tenants throughout the renovation. This proved a challenge due to the garage's unique design. The 5-story parking garage sat at the base of the high-rise apartment building and was engineered to account for the steep hill on which it was built. It rested at-grade on the north side and at walkout level on the other. Additionally, given the delamination of the concrete structure, the project required extensive shoring, resulting in installation of more than 800 shoring posts. The contractor worked from a global grid, gridding the entire floor instead of just localized beams to ensure the structure was supported appropriately. Workers also installed hard barriers composed of plywood walls and plastic to separate working zones from occupied space to ensure residents — and their vehicles — remained unaffected. After beginning the concrete removal process, SSRG found surprising new efficiencies with their hydrodemolition robot.

"Especially for residential projects, we are typically faced with a large amount of noise issues with existing tenants," Rogers said. "The Aqua Cutter operates so quietly, however, our team received very few noise concerns, but rather multiple compliments about the minimal noise coming from the jobsite."

A job of this magnitude would typically have demanded 15-20 handheld breakers, resulting in a high-decibel disturbance roughly equivalent to the sound of a music festival. The operator directed the Aqua Cutter, jetting water at 15,000 psi (1,034 bar) to remove the damaged concrete to depths ranging from 4 in (101.6 mm) to full depth, depending on the level of deterioration.

Workers built barricades to contain water and debris. Water was routed across each level of the garage and through a series of filters, allowing gravity to help with debris removal. By the time the water reached the lowest level, most of the slurry had already been removed. SSRG then pooled the water to ensure it met the standards of the Metropolitan Sewer District of Greater Cincinnati. From there, SSRG pumped the water safely into the city's sewer system. SSRG was able to greatly reduce the labor needed for the concrete removal work. The company's traditional methods would have required upwards of 30 workers, but SSRG needed only a crew of six with the aid of the hydrodemolition machine. Two operators manned the robot while four workers handled water control, edge detail work and removal of material as the Aqua Cutter worked its way through the jobsite. The robot was fed high-pressure water by a Hammelmann power pack.

Efficient to the finish

These efficiencies added up to significant cost savings for the contractor and the owner. SSRG saved over 10,000 manhours on the job versus conventional methods. But labor cost savings only tell part of the story. Because hydrodemolition is an impact-free process, it virtually eliminates microfractures and damage to existing rebar, common and costly side effects of using breakers for concrete removal. SSRG avoided frustrating delays and expensive downtime caused by unnecessary damage to good concrete.

www.aquajet.se



When tasked with a difficult parking garage renovation, SSRG turned to the impact-free Aqua Cutter 710 to prevent microfractures and rebar damage and minimize dust and noise disturbance to nearby residents.

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New Products From Husqvarna

Husqvarna has announced the release of several new products, including new power cutters, floor grinders, floor saws and its new fleet services, to name but a few.



K 770 VAC and K 770 Dry Cut

First out is the new Husqvarna K 770 VAC and K 770 "Dry Cut" power cutters providing dry cutting solutions for handheld machines for applications where wet cutting isn't an option, e.g., when water is in short supply or when regional regulations forbid slurry. The construction of the blade guard helps collect the resulting dust from cutting which can then be transported away and contained. The K 770 VAC is equipped with a flexible hose connector that is attached to an external dust extractor, such as the Husqvarna S 26, providing dust transportation and containment. The portable K 770 Dry Cut is equipped with a cutting arm with an integrated fan. The fan's strong airflow effectively removes the dust and transports it to a designated bag where it's kept contained thanks to its integrated nozzle. The bag is washable and reusable but can also be disposed of. Both power cutters provide a cutting depth of 4.8 in (122mm), while an integrated gearbox reduces the speed of the blade in order to optimize the removal of dust, transporting it via the blade guard either to the external VAC unit or the external bag.



having a location specifically made for this. The sensor will fit on non-Husqvarna equipment as well. Once installed, a plethora of information is available via a smartphone app and laptop portal.

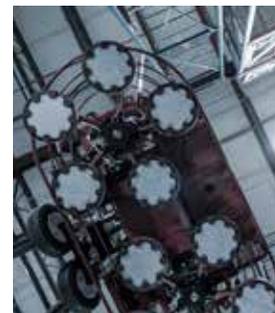
New drillstand, grinder, floorsaw, etc

The new medium size DS 500 drill stand has been developed for the Husqvarna DM 340 and similar high-powered single-phase drill motors. It delivers good drilling performance with increased rigidity and reduced weight. It's recommended for core diameters up to 15.75 in (400 mm) and will be available this summer. The Husqvarna PG 510 is a planetary floor grinder with three grinding discs and a total grinding width of 20.2 in (515 mm). It's suitable for removing coatings, grinding and polishing concrete and has been designed for both professionals and semi-professionals, making it an ideal rental machine. The grinding head is sealed to protect the bearings and belts from moisture and dirt, and has an optional one or three phase motor. Husqvarna's FS 500 E is a small sized floor saw delivering up to 7.3-in (187-mm) cutting depth, powered by a 10-hp (7.5kW) electric motor. Easy to operate, it includes a built-in water tank with optimized water flow to the blade, automatic soft start and phase error detection. Husqvarna battery blades have been developed to provide optimized performance and facilitate the smooth operating of the K 535i battery power cutter. The blades all feature smart indicators and have been specifically designed to improve the performance out of a battery powered power cutter.

Trowel system and trench compactor

The Hipertrowel system is a fast and easy six step process to create polished concrete floors on large areas by the use of a ride on power trowel. Up to 10,764 ft² (1,000 m²) of ready floor per day can be produced thanks to the passive gyro driver and the magnetic mount new TRW diamond tools. The LP 9505 trench compactor has been developed to deliver productivity in demanding trench compaction jobs. Whether dealing with steep, tight or loose soils, the Husqvarna LP 9505 possesses a number of solutions, including articulated steering, a radio remote control and drum pads, in order to undertake the work required. Husq-

varna's Mamba wire solution comprises of a hybrid bead with new vacuum technology allowing operators to choose high speed cutting while still benefiting from the efficient life span of the diamond wire, thus



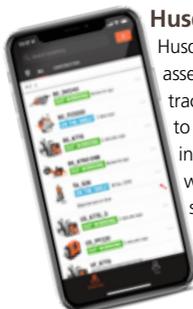
improving productivity and increasing performance.

New blade guard, dust extractor, blades and bits

A new one-piece blade guard for Husqvarna's WS 482 HF, WS 440 HF, and WS 463 wall sawing systems

is ideal for those occasions where a dividable guard is not required, or desirable, thereby enabling the use of a two- or three-piece blade guard for more complicated jobs. It's available in two sizes to fit Husqvarna diamond blades in diameters of 33 in and 42.7 in (840 in and 1,085 mm). The T 4000 three-phase industrial dust extractor matches Husqvarna's PG 530, PG 450 and PG 400 grinding machines, as well as small to medium scarifiers, shot blasters, and shavers. It's ideal for heavy duty work and the exacting demands of dust extraction, and is equipped with a quiet turbine motor delivering good airflow.

Finally, Husqvarna's 1515 Z-Edge blades and drill bits have improved Z-shaped segments that optimize the cut as well as minimize friction and vibrations. The blade and bit sturdiness and capability for withstanding tough conditions is based on the properties of the metal material used in the bond. For the Z-Edge, the quality of the bond used has been developed to achieve high strength and solidity.



Husqvarna Fleet Service

Husqvarna Fleet Services is a digital solution for asset management. It enables construction contractors, fleet managers and rental companies to stay on top of their machines, providing information on how well they are performing, where they are located and each machine's service needs. The data is collected and transmitted through a sensor puck, which is easily attached to the equipment, with some of Husqvarna's equipment already

MB Crusher Introduces New Generation of Shaft Screeners

MB Crusher, maker of the world's first patented multi-functional jaw crusher, has launched the new MB-HDS series of shaft screeners.

"The new MB-HDS series has been designed to be a real wild card," says Diego Azzolin, production director of MB Crusher. "It can adapt to a range of different working environments and can select different types of materials with unprecedented simplicity and speed, without the need for a specialist or special training."

What is new about the MB-HDS shaft screener is its ability to adapt to different types of work and different materials. It's a solution for those who have to process different kinds of waste rubble, which can quickly be turned into reusable and profitable material. The MB-HDS screening bucket is available in four models with shafts suitable for the different material selection requirements. As with all MB Crusher machines, the bucket can be installed on 5t-35t excavators, diggers, mini diggers, and loaders to easily access and move around work sites, construction sites, areas containing large pipelines, towns or remote agricultural areas.

The changing of the rotary shafts can be carried out anywhere, with the new development having a centralised greasing system with all maintenance tools being located inside a compartment of the shaft screener. An engineered automated shock absorbing hydraulic system reduces the discharge so that the engine, transmission components and the machine boom do not suffer damage.



New Brokk 70 Delivers 100% More Power

Brokk has introduced the Brokk 70 which follows last year's introduction of four new models and extends the Brokk SmartPowerTM line of machines. The new Brokk 70 is a solution for bringing safe, mechanized and efficient demolition to confined spaces. Compared to its predecessor, the Brokk 70 packs more than 100% more demolition power, comes with the latest innovative Brokk SmartPowerTM technology, as well as a powerful and fine-tuned hydraulic system.

The Brokk 70 is a testament to the technical advancements of Brokk over the last decade. It takes Brokk's signature expertise in bringing power into a small package and



to the smallest demolition robot in the world.

The Brokk SmartPower electric powertrain increases its power from 7.3 hp to 13.1 hp (5.5kW to 9.8kW) and enables the demolition robot to power twice the size of breaker as its predecessor. Taken together, this leads to a 100% increase in demolition power over its predecessor, the Brokk 60. The combination of Brokk SmartPowerTM technology and Brokk's upgraded hydraulic design leads to both smoother and more precise movements, making the machine smoother and faster to operate than ever before. Furthermore, the more powerful hydraulics and completely redesigned mechanics of the machine enables it to carry and wield heavier and more powerful attachments.

The Brokk 70 comes with several new attachments, including the new Brokk BHB105 breaker which weighs in at over 220 lb (100 kg), and comes with advanced features such as water spray to suppress dust, and air cooling for hot environments. The new Brokk BDC40 drum cutter brings impressive cutting power to the smallest segment of demolition robots for the first time, whilst the new Brokk G32 demolition grapple is developed for more efficient soft demolition. At the same time the Brokk 70 keeps the same extremely compact dimensions as its predecessor. Its power and technology comes in a package that weighs only 1,235 lb (560 kg), fits through the narrowest doorways, and can be transported in an ordinary passenger elevator.

MB Crusher's "Call & Resolve" Helps Tackle Unusual Jobs

MB Crusher's new "Call & Resolve" service gives construction companies immediate access to its invaluable know-how and field experience to ensure the right machinery is ready to the job, even those that may be complex, temporary, unusual, or exceptional. Production Manager Diego Azzolin explains that while MB Crusher's consulting department has long helped contractors choose the right machinery for specific worksites, "we've now broadened this department, allowing us to provide just-in-time responses, even for the industry's most bizarre requests."

For example, a US contractor was looking to dismantle and dispose of radio-

active concrete pillars. It used two BF90.3 crusher buckets mounted onto Caterpillar excavators, safely and quietly crushing the material directly on site. To limit dust, the company installing an MB dust suppression kit onto the crusher buckets.

Another extraordinary case was that of a Latin American company that treats hazardous waste derived from soil drilling, the goal there was to separate the aqueous and solid portions in the presence of oil. They used an MB-S18 screening bucket on their Caterpillar excavator to separate the materials and then reuse them to produce new drilling mud. Perfectly to the benefit of the worksite's profitability. With "Call & Resolve," MB Crusher offering its know-how to all contractors who want to turn difficult situations into business opportunities.



New Doosan DX250WMH-5 Material Mandler

Doosan is launching the new DX250WMH-5 25t Stage IV compliant material handler for use in the solid waste, recycling, demolition, and forestry industries. Based on Doosan's popular DX210W-5 21t wheeled excavator, the new DX250WMH-5 material handler has been designed specifically for a range of material sorting and handling applications. Designed to carry out the toughest tasks, the DX250WMH-5 is built with front and rear stabilizers, with a boom and arm specifically designed for material handling tasks. A standard feature is the hydraulic cab riser, which gives the operator better all-around



visibility of the attachment and work area.

The DX250WMH-5 is easy to operate with ergonomic joysticks and a steering wheel, coming equipped with two-way auxiliary and rotate circuit hydraulics to improve efficiency, with the operator able to use buttons on the joysticks or an optional foot pedal to control auxiliary attachments. It is powered by a six-cylinder, turbocharged Doosan DL06PA water cooled diesel engine, providing an output of 173.5 hp (129.4 kW). The engine offers convenience and lower costs by meeting Stage IV emission regulations without the need for a diesel particulate

filter through the use of cooled exhaust gas recirculation (EGR) and selective catalyst reduction after treatment technologies.

A special Doosan developed Smart Power Control system improves machine efficiency while maintaining productivity through variable speed control and pump torque control, automatically adjusting RPM according to the load being handled. As well as other standard features, there are also a number of options available including additional work lamps, cab guarding and frame guards.

GT Mid Atlantic Now Carries Liebherr Equipment at 3 NJ Locations

Liebherr USA Co., has announced that three of GT Mid Atlantic's locations in New Jersey now carry the full range of construction equipment. Customers are able to purchase Liebherr crawler loaders and dozers, excavators, wheel loaders, and material handlers.

"Liebherr is a proven brand that delivers quality equipment," said Pat Sherwood, president and chief operating officer of GT Mid Atlantic. "We are ecstatic to sell and service their quality machines at our locations in New Jersey." GT Mid Atlantic sells, services, and rents construction and road building machines and equipment in Maryland, New Jersey, Delaware and the Philadelphia area. Part of Groff Tractor Holdings, the company carries nearly 20 top brands of equipment.

Sean Collins, senior vice president of business development for Groff Tractor Holdings, will oversee the Liebherr business for the company. GT Mid Atlantic's product and technical specialist Justin Howard, vice president and NJ operations general manager Bill Barry, and a team of factory-trained service technicians will play key roles in providing service and support to customers.



ASV Introduces New Posi-Track Loader

ASV announces the new mid-frame, vertical lift VT-70 High Output. The Posi-Track loader features high torque and an efficient hydraulic system for maximum performance with even the most heavy and demanding attachments. That means more productivity for ASV customers in all applications.

www.asvi.com



Tyrolit Presents Innovative Developments

Tyrolit presented numerous innovations for concrete cutting and drilling at Bauma 2019, including the WSE 1621 wall saw system. With light weight components, communication interfaces and cutting depths of up to 27.75 in (705mm), the WSE1621 is a wall saw for everyday use on the construction site. Moreover, the wall saw is the first Tyrolit machine equipped with MoveSmart technology, which provides real time user data for the machine. This technology is the basis for optimised planning and cost efficient faster operations for users on the one hand, and for user oriented product development on the other.

Tyrolit also unveiled the WCU17 wire saw, which comes with wire storage of

The launch of the WSE1621 marks a new era of wall sawing.



The world's first ATEX certified wire saw system by Tyrolit.

up to 55.7 ft (17 m). One special feature is the machine's compatibility with the drive units and remote controls of other Tyrolit machines, such as the WSE1217 and WSE1621. Another highlight was the recently CE certified WS30, a HF wire saw from Tyrolit subsidiary, Diamond Products.

Right on time for the 100th anniversary of the company, Tyrolit also presented a completely new and compact dry cutting assortment for the construction trade sector. Within the next two years, the complete assortment will be adapted in line with current market needs as well as with today's powerful machines. Central to the new range are high product safety, as well as optimized cutting speeds and a maximum tool lifetime.



Within the next two years the Tyrolit dry cutting assortment will experience a complete upgrade.



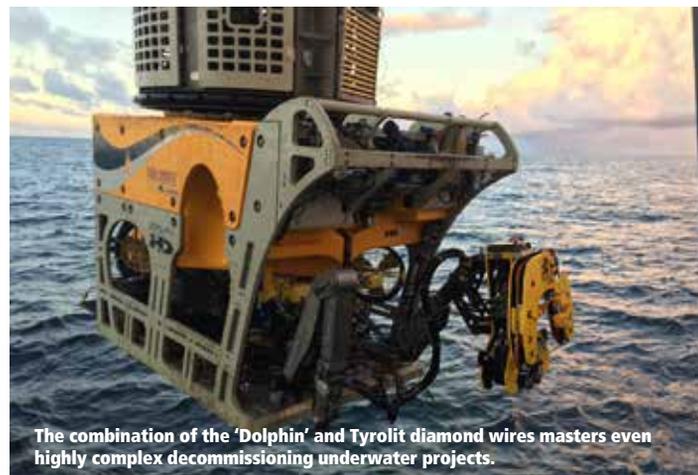
The WCU17 wire saw comes with wire storage of up to 17m.

The product innovations comprises of discs with conventional segments as well as segments with TGD Technology. Further highlights for the construction trade sector

are new assortment of floor grinders and floor grinding shoes—the new TBE400 table saw and the DRS250 core drilling system.

For more than 20 years Tyrolit has been a partner for companies that specialize in the controlled decommissioning of offshore platforms and nuclear power plants. Apart from the classic concrete drilling and sawing equipment, which can be adapted according to the customers' needs, the Tyrolit project services team offers a wide range of special tools and machines for complex projects. To this end, Tyrolit presented part of the range that has proved its use including Curved Track, a drilling unit for deep drilling that is also the world's first ATEX-certified wire sawing system.

The "Dolphin" by 1Diamond, an expert in the offshore and subsea business, was also exhibited. Tyrolit and 1Diamond teamed up in 2018 to bring customized project solutions from both companies to a new level. This enabled them to offer various cutting solutions from as deep as 1.8 miles (3 km) below sea level right up to the surface.



The combination of the 'Dolphin' and Tyrolit diamond wires masters even highly complex decommissioning underwater projects.

Aquajet's Revolutionary Ceramic Nozzles in Action

Aquajet's ceramic nozzles are more than just tough. They're specially designed to offer industry-leading longevity, cost savings and productivity to maximize efficiency on even the toughest jobs. True, a ceramic nozzle costs more than a steel counterpart. But it's not just the material that makes the difference. Aquajet's engineers thought through each component to ensure optimal efficiency. The smoother internal surface produces a longer length of cohesive water jet stream, and a higher coefficient of discharge. By maintaining a narrow path for a longer distance, Aquajet's ceramic nozzles allow users to remove more material with a higher level of accuracy, increasing overall productivity.

Depending on water quality, Aquajet's ceramic nozzles can last more 350 hours, compared with the 50-hour lifetimes of most steel nozzles. That means users might well spend as much as \$1,000 on steel nozzles before replacing one ceramic nozzle. This results in thousands of dollars over the course of the hydrodemolition robot's lifetime and negatively affects jobsite efficiency in terms of downtime for maintenance.

A Louisiana contractor saw the benefit of ceramic over steel nozzles firsthand. Faced with a tight deadline to remove 2-ft (.6-m) deep concrete from 1,500 pilings in a swampy area, the contractor employed two Aquajet Aqua Cutter 710Vs with inexperienced crews and an alternative hydrodemolition machine manned by experienced operators. The Aqua Cutters blew the competition out of the water — clearing 21 pilings per day compared to just five by the other machines. The contractor attributed its efficiency to the quality of the nozzle. And over the course of the removal, Aquajet's ceramic nozzles outlasted and outperformed the competition's steel nozzles, saving the contractor time and money.

Hydrodemolition contractors are under pressure to get the job done quickly, safely and economically. With industry-leading longevity, cost savings and productivity, Aquajet's ceramic nozzles are just one example of the care and forethought the company puts into every aspect of its hydrodemolition robots to help achieve maximum efficiency.

www.aquajet.se



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OilQuick Unveils Product Innovations

OilQuick quick couplers enable quick and safe switching of hydraulic attachments directly from the cab. The company has now added several new products to its portfolio. Among them is OilQuick's Front Pin Guide (FPG), a control system that enables centred and safe guiding of the coupler in the attachment frame, thus ensuring stress free connection of the electrical and oil connections. OilQuick expects the new patented product improvements to achieve increased operational reliability and lower maintenance costs.

New and innovative safety solutions have also been launched with an electronic monitoring system, OQ-LockSupport (OQLS), an advanced safety system for excavators. OQLS guides the operator through the entire attachment switching process, standardises operation of the locking function and provides the operator with information via a cab panel. OQLS is available for two quick couplers in "sandwich" versions (i.e. above and below the tiltrotator).

A new fall protection system lessens the hazard of attachments dropping around the machine, resulting from careless or incorrect coupling by the operator. Safety hooks catch the attachment in all positions, while a mechanical lock indicator (MRL)

clearly informs the operator whether the coupler's locking plungers are in the locked or unlocked position. MRL indicates that the attachment is correctly connected and locked only when the locking plungers are in the correct position under the frame pin.

Further product innovations shown at bauma were a newly developed 17-pin vertically mounted V90 electrical connector, which allows simultaneous operation of two separate "can bus" systems and control electronics on the same connector. OilQuick has also launched a special OQRail coupler for rail excavators, and an improved OQC coupler system for pendulum-mounted attachments.



Husqvarna's New K535i Power Cutter Offers Battery-Powered Convenience

The latest addition to Husqvarna's battery-powered range, the K 535i power cutter builds on its fuel- and electric-powered equivalents, while adding benefits such as low vibration, low weight, and user-friendly ergonomics to the mix. It's virtually maintenance-free and offers a low cost of ownership. And on top of that, you can easily use it for wet cutting.

"The K 535i is an excellent addition to Husqvarna Construction's power cutter range," says Mike Ward, Americas Product Manager, Power Cutters. "The easy starts and light weight make it a perfect complementary product that adds flexibility to most smaller operations."

An excellent power-to-weight ratio makes the K 535i perfect for quick, efficient

cuts. And since it doesn't depend on power from the grid, you can trust it to take care of business whenever, wherever it's needed. The side-fed placement of the battery maximizes cooling and minimizes the risk of slurry and dust getting stuck in the machine.

At 7.5 lb (3.5 kg), the K 535i is easy to lift, control and maneuver, while the centered-placement of the blade provides increased stability and control, compared with conventional angle grinders. An electric brake stops blade rotation from full throttle to zero in 3.1 seconds. The handles are specially developed to be comfortable and increases control for extra safety while cutting, while the intuitive keypad is designed for quick commands and features a savE™ function.

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Product News from Indeco

Demolition and recycling attachment manufacturer Indeco has line up a whole bunch of new products ready for delivery.

IMP Multiprocessor

Indeco's new IMP multiprocessor has a more robust body and has been redesigned to increase its maximum jaw opening, while its demolition, pulverizing and cutting geometries on the various jaws have also been improved. The jaws have also undergone another key improvement, with Indeco IMP's crusher and pulveriser configurations now having interchangeable teeth. Welded onto a bolt on plate anchored to the jaw, all Indeco jaw teeth can be removed as a unit. This greatly speeds up replacement and improves grip, giving the attachment greater durability. The shear version has also undergone substantial innovation, with the blades now being fully reversible and interchangeable so that they can be used for cutting at any angle. They have a dual-profile piercing tip system with differentiated upper and lower tips, for a clean gradual cut.

Two new small attachments for mini excavators

The Indeco range of small hammers has been expanded with the HP 100, designed for mini excavators from 0.7t to 0.8t for working in restricted working areas. Despite weighing less than 132 lb (60 kg), the HP 100 has a larger steel diameter than hammers in the same class, and delivers good impact energy per blow. The new hammer also maintains maximum hydraulic efficiency from start to finish, reducing demolition times and ensuring high productivity levels. Given the growth in mini excavator sales, Indeco has created the new IRP 5 X concrete crusher.

Anti-dust system updated

Indeco's IDA dust abatement system has been updated in line with the latest OSHA guidelines in order to protect workers even more against exposure to crystalline silica micro particles. Indeco has launched an optional low-pressure dust abatement system for its smaller range of hammers and pulverisers, which can be mounted on carriers of up to 16t.

The technology involves moving the vaporising plate, with its four nozzles, away from its previous position in the lower part of the casing. It is now located where the mounting bracket is attached, which enables it to cover the entire working area regardless of the tool's position. This reduces the amount of dust produced, even on windy days. The new system requires a low-pressure water supply, as the sprayers activate automatically only when the attachment is in action, thereby reducing water consumption.

Indeco mulching head

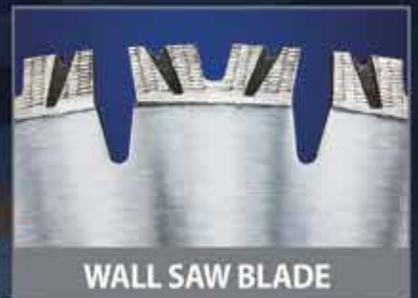
Indeco has also introduced a whole new line of tools, IMH boom mounted mulching heads, manufactured and successfully tested by Indeco North America and soon to be available worldwide. These brand new products can transform excavators and skid steers into powerful land clearing and maintenance tools in the forestry, gardening and landscaping applications.

www.indeco-breakers.com



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RONDA Negative Pressure Air Cleaners

The focus on health and safety and the value of a dust-free work environment is increasing in many parts of the world. Whether you wish to minimize the amount of fine and health-hazardous dust particles in the air at the construction site, or to create a negative pressure in the room where you are working, a negative pressure unit is a must.

That's why V. Brøndum of Denmark has

introduced a new range of Negative Pressure Units--the RONDA NPU 1250, RONDA NPU 2500, and RONDA NPU 5000. All three models are powerful, robust and easy-to-use machines designed for the construction industry.

Each unit is equipped with a large pre-filter as well as an effective HEPA-14 filter also with a very large filter surface which

restrains the finest and most health-hazardous particles. A manometer showing the filter load is standard and on the two larger versions the air flow can be adjusted.

It is possible to use all of the three new RONDA Negative Pressure Units in the room where you are working or to integrate the NPU's in your dust wall.

www.broendum.com

Tyrolit Teams Connect Construction Machines

The "Internet of Things" (IoT) enables intelligent communication between machines. This development has seen a new manufacturer-independent language for construction machines in concrete drilling and cutting technology being developed. Tyrolit is now implementing this innovation with the so named "MoveSmart" technology.

"Networked machines and digital solutions are becoming more and more important in our sector," says Wolfgang Wiefler, managing director, Tyrolit Construction Products. "We see that our customers need a universal, cross-vendor solution. For that, the industry standard with ToolSense

and DeutscheTelekom is ideally suited." The development has seen one tool being used to seamlessly take over administration of the machinery. Machines that up to now have been isolated, and those which have only been used in offline operations, are now centrally connected by one single device. As a result, the barely digitalized concrete drilling and cutting technology segment has now taken a big leap forward.

The compact Tyrolit WSE1621 is a reliable and powerful wall saw system, and the first in the world that features the MoveSmart technology. The lightweight system components incorporate numerous

digital equipment attributes that collect important data for optimal and smooth operation. Via its intelligent communication interface, the data is available anytime, whether in the office or on mobile devices, simplifying work for the user.

ToolSense develops solutions to enable contractors to react flexibly and quickly as they will know where MoveSmart-equipped machinery is located, when each piece was in use and for how long, whether there was unplanned downtime, or whether a service is pending. Research is underway to retrofit older models with this new technology.

www.tyrolit.com



Cat's TRS23 Tiltrotator System for Wheel and Track Excavators

The TRS23, featuring a fully integrated control system that enhances carrier versatility and attachment control, rotates 360° in either direction and tilts up to 40° left and right, allowing the machine to reach more work areas from a single position, and to manoeuvre around obstacles. The new TRS23 is available with pin on and coupler interfaces for handling a range of grading and trenching buckets (with CW-, CWs-, or S-coupler tops and bottoms), and an available swivel which can operate such work tools as compactors and grapples. An optional grapple module allows picking and placing material without changing work tools.

Cat's "SecureLock" ensures a positive tiltrotator connection to the carrier by using both hydraulic and mechanical locking mechanisms, as well as a sensor-based confirmation system with audible signals and visual in cab indicators. Integral load holding valves are designed to maintain cylinder stability and to secure loads, even if lines are cut. Heavy-duty bolted joints secure the housing, rotator, and coupler as a unit. The worm gear drive is designed with wide bearing surfaces that distribute excavation forces in all directions. In addition, the gear drive is submersed in oil to ensure positive lubrication in all operating conditions. Pins, shafts, and bushings feature heavy-duty construction and the hydraulic rotator motor is protected inside the cast rotator housing.

Other features include bucket pulse, designed to automatically spread material evenly and quickly. Optional RPS sensors track the position of the tiltrotator, showing data on the in cab monitor, as well as sharing information with grade control systems. For precise attachment control, the TRS23 allows "home" positions to be stored for returning the tiltrotator (with the press of a button) to a user defined position. The Innovative Lubrication System (ILS) simplifies daily maintenance, allowing the tiltrotator to be greased from one location or connected to the machine's automatic lubrication system.



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