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Address: P.O. Box 786,
SE-191 27 Sollentuna, SWEDEN

Visitors address:
Skillingevägen 14A, SE-192 71 Sollentuna, SWEDEN

Phone: +46 8 631 90 70
E-mail: info@pdworld.com
Website: www.pdworld.com
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EDITORIAL STAFF

Editor-in-Chief
Jan Hermansson, Jan.Hermansson@pdworld.com

Assisting Editor-in-Chief
Anita do Rocio Hermansson,
Anita.Hermansson@pdworld.com

Editor: Vitor Hermansson, vitor@pdworld.com

Editor Europe: Mikael Karlsson,
mikael.karlsson@pdworld.com

Editor North & Central America
Jim Parsons, jim.parsons@pdworld.com

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

Editor Russia & Eastern Europe
Andrei Bushmarin,
andrei.bushmarin@pdworld.com

Editor Africa
Kevin Mayhew,
designmp@iafrica.com

SALES OFFICES

International Sales Director
Germany/Austria/Switzerland/UK & Ireland
/BeneLux/Finland/France/Spain/Portugal and Italy
Andrei Bushmarin
Phone: +7 921 949 27 81
E-mail: andrei.bushmarin@pdworld.com

Sweden/Norway/Denmark/Liechtenstein/North America/South America
André Hermansson
Phone: +46 (0)8 631 90 70, Mobile +46 (0)70 979 04 03
E-mail: andre@pdworld.com

Australia/New Zealand/Asia Pacific/Korea/Japan and rest of the world:
Contact PDI editorial office in Sweden
Phone: +46 (0)8 631 90 70, Mobile +46 (0)70 979 04 03
E-mail: info@pdworld.com

Publisher
Jan Hermansson

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Words from the IACDS President

A YEAR OF HARD WORK AND DEDICATION TO THE INDUSTRY

As we look back on the events and initiatives of 2023, it is evident that for the IACDS 2023 has been marked by hard work, collaborations, and the pursuit of excellence within the concrete drilling and cutting industry.

The highlight of the year was undoubtedly the IACDS Annual Convention 2023, held in one of the most memorable cities of Europe, Venice. The convention brought together industry professionals from around the world to discuss the latest advancements, share best practices, and explore innovative solutions. The beautiful backdrop of Venice served as a fitting setting for the exchange of ideas and knowledge, fostering a sense of unity and camaraderie among participants.

A notable achievement in 2023 was the release of the 'Guide on safe use of diamond segmented tools'. Created in collaboration with the FEPA, we worked diligently to compile a comprehensive guide that serves as a valuable resource for industry professionals.

This guide not only outlines best practices for the safe use of diamond segmented tools but also emphasises the importance of training and adherence to safety standards. By promoting a culture of safety, IACDS aims to contribute to a reduction in accidents and incidents within the industry, ensuring the wellbeing of workers and the integrity of projects.

On the other hand, our latest publication, the IACDS Yearbook 2023 stands as a testament to the association's dedication to documenting and disseminating knowledge within the concrete cutting and demolition sector. By compiling experience and knowledge of multiple national associations from all around the world, it helps to paint a complete picture of the most prominent topics within the sector, thus promoting debate and discussion amongst fellow professionals.

As the year comes to a close, the IACDS can look back with pride at the achievements and milestones reached in 2023. Our main goal going forward is not only to keep up the good work but to expand it further, making the industry a better place for those within it.

As the president of the association, I would like to extend my congratulations and gratitude to all the colleagues that were involved in IACDS throughout this year. Your sincere passion for the sector is what really keeps us going. We hope you enjoy the holidays, and we'll see you very soon at the IACDS meeting and networking event 2024, in Las Vegas, on 24 January!



Douglas Walker, president of IACDS

Stanley Infrastructure to become part of Epiroc's Tools & Attachments division

Epiroc has agreed to acquire Stanley Infrastructure from Stanley Black & Decker, Inc. The strategic acquisition will strengthen Epiroc's presence in the attachments business in infrastructure and construction, especially in the United States.

Stanley Infrastructure designs, manufactures, and sells attachments, typically used on excavators and handheld hydraulic and battery powered tools for applications in infrastructure, construction, scrap recycling, demolition, and railroad infrastructure. Its brands include LaBounty, Paladin, Pengo and Dubuis. Stanley Infrastructure has estimated revenues in 2023 in the range of about €412M to €430M, an EBITDA margin in the mid to high teens, and about 1,380 employees, mainly in the United States. The business has 10 key production facilities in the United States, Canada, France, and China. The vast majority of the revenues are generated in North America.

"We are very excited about this strategic acquisition, which is a major step to strengthen our long term presence in the infrastructure and construction industries," says Helena Hedblom, Epiroc's president and CEO. "Stanley Infrastructure has industry leading products, services and solutions with renowned brands, solid customer relationships, and a strong people culture, which all makes this a perfect fit for Epiroc. Our product

portfolios complement each other very well, and this fills some important gaps in our current offering. In addition, we gain access to a broad indirect sales network, which will further diversify and strengthen our footprint. Infrastructure and construction have attractive drivers that include urbanisation and scrap recycling for steel production, which will support long term growth."

"Customers will benefit from having access to a more complete product portfolio, which, we together will continue to develop to meet customers' increasing need for versatility and productivity," says Goran Popovski, president of Epiroc's Tools & Attachments division. "We look forward to welcoming the great team at Stanley Infrastructure to the Epiroc Group, and to grow successfully together."

The purchase price is €695M (approx.) with the acquisition being an all cash transaction with secured financing through a bridge facility. The acquisition is subject to customary regulatory filings and is expected to be completed in the first quarter 2024.



EDA welcomes Kameran Group as its newest member

The Kameran Group, formerly known as Philippos Kameran Ltd, was founded in 1988 by Philippos Kameran. Operating in Cyprus, the company specialises in demolition, dismantling, asbestos removal and the collection and management of construction and demolition waste.

Throughout the years, Kameran has conducted numerous important projects. Among them was the demolition of the Ronald McDonald House, the demolition of Nicosia Municipal Theatre, the demolition and asbestos removal of the Nicosia

Old General Hospital and works on several hotels.

One of Kameran's most prominent features is its workforce, which the company defines as 'the foundation of the Group's customers' trust'. Besides carrying out the work, they actively participate in workshops, seminars and conferences, organised by private and public institutions. Kameran also puts a great focus on a safe and healthy environment, with immediate response and customer satisfaction being one of the company's primary goals.

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WHEN THE CHAFF IS SEPARATED FROM THE WHEAT

This year is coming to its end; it has been an eventful year to say the least, in a rather sad way. Unfortunately, there are few bright spots in the times we live in, the war in Ukraine continues as does the conflict between Israel and Hamas in Gaza. Thousands of innocent people have died on both sides and the death toll is increasing fast. When will we start to love each other instead of killing each other because we do not like the colour of someone's skin or what they believe in?

A recession is also a fact in many countries these days. However, what is good news is that inflation seems to be falling, albeit slowly. The mood of the industry is not actually that gloomy despite the impression you could gain when listening to the news reported in the media. I talk regularly with both contractors and suppliers around the globe. Of course, there is some grumbling if projects are delayed or put on hold. Bankruptcies have increased both among contractors and suppliers, but there is little consistency from companies and countries, with many companies stating that the jobs are actually there.

It may sound a bit strange to some, but the companies that take care of their business and customers are the ones that are doing better. Borrowing a passage from the Bible, 'when the chaff is separated from the wheat'. It should pay to be honest and sincere in your conduct, both privately and professionally. As a rule, there are no shortcuts. If you, as a contractor or supplier, have taken the perhaps both more difficult and longer path, which may not have always yielded the quick return, but which has equipped your company in a way that will last, you will benefit from it when life starts to get tough.

This edition of the magazine provides several good examples of how quality and seriousness in products and work pays off, even if it may cost a little more. With the help of industry branch associations, equipping your company and your employees with the right equipment and training to do a good job, providing the customer with the best service possible, is sound business. Satisfied customers, as is well known, also spread good news, come back and multiply. We can only wish that customers act in the same way and actually choose the contractors and suppliers who stand for quality and work to be long term partners instead of only going by what the price tag says.

I may take the opportunity to point out that this also applies in our world as a trade magazine. When the economy is bad, many companies reduce their advertising budgets in the hope of saving money. They put pressure on the rates of advertisements and the number of insertions is reduced. As a trade magazine, we can meet this to some extent, but after all, our income comes almost exclusively from advertising revenue and it is needed after all to maintain as high quality of content as possible.

I would like to take this opportunity to thank all our advertisers and readers for 2023 and hope to see you again in 2024. Let's hope that 2024 will bring some more light to this world.

Wishing you all a Merry Christmas and Happy New Year.



Jan Hermansson
Editor-in-Chief
jan.hermansson@pdworld.com

Andrew Bowen returns to D-Drill & Sawing

The North East office of D-Drill & Sawing has hired a new manager with Andrew Bowen returning to lead the business's team at the Craghead office. He briefly left the firm to join a company that supplies products to the construction industry but jumped at the chance of a return when the opportunity became available.

Andrew will oversee D-Drill & Sawing's operatives in Craghead, who work for a range of clients across the North East of England and Scotland. He said: "I'm really pleased to be back. When I found out there was an opening to run the office in the North East, I spoke to the company and applied for the role. I am delighted to have been given this opportunity and I am looking forward to building on the success of this branch of D-Drill and developing it even further.

"I've been in the industry since I was 18 and it's up to me to pass on my experience and expertise developed over nearly 40 years to the next generation. The industry really needs a pipeline of new people coming into it and, here at D-Drill, we love to bring people



through because we know that is the future of specialist construction companies like ours."

Julie White, managing director of D-Drill & Sawing, said: "It's great to have Andrew on board again. We have locations across the UK, servicing clients all over the country and the North East office is very busy, working on a whole host of different projects. There is potential for further growth in the region and Andrew will drive that on for us with all the new specialist services that we have introduced, along with our core concrete cutting. These are very exciting times for the company."



Bobcat announces new facility in Mexico

Doosan Bobcat, has announced a new manufacturing facility in Monterrey, Mexico, anticipated to begin production in late 2025/early 2026. The investment of nearly €300M will expand Bobcat's existing global footprint to create additional production capacity and manufacturing capabilities for selected compact track and skid steer loader models. The new facility is expected to create an additional 750 jobs in the region.

"As a global company with manufacturing facilities, offices, dealerships and customers across the globe, we have seen tremendous growth and increased demand for our products," said Scott Park, Doosan Bobcat CEO. "We are excited to continue growing our footprint to meet demand for Bobcat solutions worldwide."

The 67,000m² manufacturing facility is expected to increase Bobcat's North American compact loader production capacity by 20%. The facility will feature areas for welding,

painting and assembly, as well as an onsite warehouse and office space. Bobcat states that it will implement state of the art technology with an emphasis on quality, precision and energy efficiency. The Monterrey location will manufacture compact loaders for North American distribution. Bobcat has additional locations across its global footprint that also produce compact loaders.

"Adding the Monterrey, Mexico facility allows North America to meet growing customer demand and enables our Bobcat European production facilities in Dobřiš, Czech Republic to focus on manufacturing products for the EMEA region, in the EMEA region, meeting growing demand here. Globally, Bobcat will better serve customers by expanding our manufacturing facilities and shortening lead times," said Gary Hornbacher, Doosan Bobcat president for the Europe, Middle East and Africa (EMEA) region.



Komatsu BR380JG-3

The BR380JG-3 is your new Komatsu jaw crusher. Highly productive and efficient, it features a fully automatic discharge setting adjustment system. With an inlet size of 1065 mm x 550 mm this 35 tonnes-class crusher can deliver a maximum treatment capacity of up to 240 t/h. What's more, the BR380JG-3 has a unique CO₂ offsetting scheme, making it the first truly environmentally friendly crusher in Europe.



New Year, new challenges, and new beginnings

As 2023 is approaching its end, it's a great time to stop and reflect on the work done by the European Demolition Association, EDA, and what is yet to come.

It was a year full of activities, initiatives and publications undertaken by our association. As usual, the highlight was the annual convention in Amsterdam, the Netherlands, with over 190 professionals attending the event. There, they had the chance to visit the beautiful exhibition space, situated under the plane in the Corendon Hotel, as well as attend the gala dinner in the National Maritime Museum, a truly unforgettable experience.

2023 also brought with it many publications, such as new guides and, of course, the EDA Yearbook 2023, where demolition professionals from all around the world shared their knowledge and ideas, uniting the industry once again. Last, but not least, the EDA shined through with its participation in other events and initiatives, such as CEN/TC and 2050 Construction Alliance.

With all those activities, the association, once again, showcased not only its professionalism, but also its passion for the construction and demolition sector.

As for our plans for 2024, we already have a few! At least two publications, a new guide on recyclable C&D materials, and the EDA Yearbook 2024, will make an appearance, as well as the special publication 2024, published by the European Decontamination Institute. This is centred around the decontamination of hazardous substances.

Finally, our star event, the EDA Annual Convention, will take place in Belgrade, Serbia, from 13 to 15 June 2024. Organised in partnership with the EDI and the Serbian Demolition Association, we will transform the famous 'White City' into a meeting point of demolition, decontamination and recycling industry professionals. Three days filled with work-

shops, conferences, networking sessions and, of course, leisure activities, as well as a welcome cocktail and gala dinner event. It is set to be an unforgettable experience!

Furthermore, until 16 February, you can register for the event at a reduced rate, allowing the early birds to enjoy our unique event for a great price!

As the EDA president, I would like to wish all of you a prosperous New Year, full of success and new experiences. Let 2024 be a time for new beginnings, and we hope to see you again very soon!

About EDA

The EDA was founded in 1978 and is the leading platform for national demolition associations, demolition contractors and suppliers. The EDA has a strong focus on developments in Europe, which are of interest to the demolition industry.

info@europeandemolition.org
www.europeandemolition.org



Stefano Panseri, President of EDA, European Demolition Association



Celebrating 65 years of power cutting

In 2023, Husqvarna celebrated the 65th anniversary of the power cutter which was introduced to the market in 1958, with the introduction of the K10. Very quickly, power cutters became an integral and much appreciated part of the company's product offering to the light construction segment. The Husqvarna power cutter was born from pure innovation; in this case, visionary engineers saw an opportunity to adapt a chainsaw model and establish the basic design of the power cutter. The intended purpose for this first version was for use by rescue and emergency services and from these beginnings a whole new segment was born.

With over 60 years of experience in power cutter manufacturing and handheld cutters, Husqvarna Construction states that it is now acknowledged as a world leader in the field. Today, the company's machines and their associated diamond blades are used in construction projects all around the world, proving to be indispensable tools. However, as Joakim Ed, Senior vice president Concrete Sawing & Drilling Husqvarna Construction explains, the motivation that drives continuing product development and innovation remains

unchanged from those early days: "We strive to be a leader in the power cutter segment for a very simple reason – to empower the professionals who build our houses, roads, bridges and countless other projects, helping them work more efficiently, comfortably and safely."

Although power cutters have been joined by many additional product lines and new application areas developed in recent years, they remain a vital part of Husqvarna's history, its core business and what many associate Husqvarna Construction with. Furthermore, the spirit of innovation is truly alive, with Husqvarna's latest model designed to take the power cutter to new performance levels. "Around a year ago we launched the 'K1 Pace', a high power battery cutter with the capacity to handle heavy duty jobs. K1 Pace and the battery system that it utilises is an unmatched handheld battery solution, free from exhaust emissions and charged with possibilities for our customers. As well as being a solution that feels exactly right for these times, we're sure K1 Pace will give us plenty of reasons to celebrate more anniversaries in the years to come," concludes Joakim Ed.

Official launch of OilQuick Italy

OilQuick AB is pleased to announce the establishment of OilQuick Italy, a new subsidiary located in the historic city of Verona. This strategic expansion underlines OilQuick AB's enduring commitment to bringing its pioneering quick coupler technology closer to its valued clientele in Italy. OilQuick Italy will function as an extension of OilQuick AB, dedicated to representing the brand and its products within Italy. With the helm in the adept hands of Mr. Alessandro Galasso, appointed as the commercial director, the new subsidiary aims to provide seamless service and support, fulfilling the distinctive market needs.

Alessandro Galasso, with his extensive experience and market knowledge, is anticipated to drive the brand's growth and foster enduring relationships with Italian customers. A range of official social media pages of OilQuick Italy have also been introduced, thereby inviting associates, media, and the public to engage

with the company. The social media links are: Facebook: <https://www.facebook.com/oilquick.italy>; Instagram: <https://www.instagram.com/oilquickitaly> and LinkedIn: <https://www.linkedin.com/company/oilquick-italy>.

The company would like to extend its gratitude towards everyone who has played an instrumental role in making OilQuick Italy help come to fruition. OilQuick says that its Italy business unit is not just an extension of its business but is a testament to the company's evolving journey and the enduring relationships with the Italian market.



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EVENTS

IACDS ANNUAL MEETING

23-25 January, 2024
Las Vegas Convention Centre
Las Vegas, USA

www.iacds.org

WORLD OF CONCRETE

23-25 January 2024
Las Vegas Convention Center,
Las Vegas, USA

www.worldofconcrete.com

THE ARA RENTAL SHOW

February 19-21, 2024
Ernest N. Memorial Convention
Center, New Orleans, USA

www.arashow.org

FACHTAGUNG ABRUCH GERMAN DEMOLITION ASSOCIATION MEETING

March 22, 2024
Postbahnhof, Station, Berlin, Germany
www.fachtagung-abbruch.de/en

GIC EXPO 2024

April 18-20, 2024
Piacenza Exhibition Center,
Piacenza, Italy

www.gic-expo.it

INTERMAT 2024

24-27 April, 2024
Villepinte, Paris Nord,
France

www.intermat.fr

IFAT 2024

13-17 May, 2024
Munich Exhibition Centre, Germany
www.ifat.de

EDA ANNUAL CONVENTION

13-15 June, 2024
Hilton Bgrade Hotel, Belgrade,
Serbia

www.europeandemolition.org

HILLHEAD 2024

25-27 June, 2024
Hillhead Quarry, Buxton,
United Kingdom

www.hillhead.com

DEMCON 2024

September 19-20, 2024
InfraCity, Stockholm,
Sweden

www.demcon.se



Lee Thomas, Muff Murfin (charity president), Julie White.

Two female co-chairs appointed for a charity supporting vulnerable children

Julie White, the managing director of D-Drill & Sawing, and Lee Thomas, managing director of Aesthetics Events Staff, have become the co-chairs of the Coventry & Warwickshire Children's Charity. The charity has since 1996 raised more than €3.5M for local children who have suffered from physical, mental or sexual abuse.

Coventry kids Julie and Lee are both successful entrepreneurs in the region and have supported the charity over many years. Now, as chairs, they are looking to engage as many local businesses as possible with an aim of raising even more money. Lee said: "The Coventry & Warwickshire Children's Charity is very close to my heart and the money raised by local businesses across more than 25 years is phenomenal and means many children have received the vital support they need.

"Julie and I both run businesses in the

area and when the role of chair became free we decided we'd offer our services jointly to help drive the charity on to raise even more money. So many people have contributed to the charity over the years, and now Julie and I are keen to give back to make sure its incredible work continues."

Julie added: "I am really pleased to be teaming up with Lee and we really want to get some new people involved with the charity to ensure that its work is carried forward. It's approaching its 30th anniversary and has done some amazing work over the years, and we're keen to keep that going and bring all of our energy and ideas to make sure we raise even more money. I'd urge anyone who wants to be involved to get in touch with Lee or me as we're looking to work with as many business people as possible in the coming weeks, months and years."

Hilti Group adopts 'Circelligence'

Together with Boston Consulting Group (BCG), the Hilti Group has created and applied a score that makes the implementation of circular economy principles measurable. In the conventional model of a linear economy, a large proportion of the resources used are removed from the material cycle as products are discarded at the end of their life cycle. In a circular economy, materials are kept in circulation which reduces the extraction of raw materials overall.

Teaming with BCG, the Hilti Group has created and applied a Hilti circularity score, leveraging Circelligence, BCG's new methodology for measuring the implementation of circularity principles in its own operations. The achievements are evaluated by Circelligence and visualised through SAP Business Technology Platform, which provides a user friendly interface for tracking the materials along the entire value chain.

"There is no internationally recognised standard for measuring circularity as opposed to, for example, measuring greenhouse gas emissions. So, we created one for our purposes. Ultimately, we wanted

to set an example for the industry, not only the construction industry but the broader landscape of any company that's embarking on the journey of circularity," said Caroline Stern, head of circular economy at the Hilti Group. "It's about keeping materials in use, but also mitigating supply chain risks and being less dependent on volatile international markets for raw materials."

Through Circelligence methodology, Hilti thoroughly evaluates the circularity of its entire product portfolio on a yearly basis. The results that are published in the annual sustainability report serve as a basis to calculate the company's CO₂ goals and define its initiatives as part of its science based targets commitment to net zero.

Hilti's circularity approach consists of the three core areas, namely reduce, reuse and recycle. An important pillar is the 'product as a service' offering with Hilti's fleet management, where customers are provided a tool park tailored to their needs. This approach is designed to ensure that no resources are wasted on duplicate, excess or idle tools.



Rotar celebrates win at World Demolition Awards

Dutch manufacturer Rotar is delighted to have won a World Demolition Award at the recent summit held in Toronto, Canada. The Rotar RCC RCC45 Concrete Cutter with 'Ramplifier' technology and fully integrated OilQuick OQ90, won the 'Innovation – Tools and Attachments' category despite strong competition. Recognising excellence and best practice in the Demolition Industry the winners are determined by an international judging panel of leading industry experts. Rotar states that it is a fantastic achievement to win such a prestigious award with the company being very honoured.

The award winning innovation is a fully integrated quick coupler adapter OQ90 with the RCC45, with OilQuick's OQ90 being designed for 40t-70t excavators. The RCC45 concrete cutter is designed for primary demolition and has a large jaw opening designed to deliver tremendous cutting power. It comes fitted with 'Ramplifier', which is said to provide double the power in a split second, doubling the input pressure to a maximum of 700bar. Louis Broekhuizen, Rotar's commercial director said: "It's a team effort and I'm proud of the entire Rotar crew for all their hard work to bring this innovative piece of equipment to the marketplace. I strongly believe that there is always room for improvement and at Rotar, we continually monitor new technologies to create marketing leading equipment for the demolition industry."

Rotar specialises in attachments for the demolition, recycling and scrap industry. Types of attachments available include shears, pulverisers, processors, grabs, concrete cutters, screening/washing buckets and segregator buckets. The company states that it continually strives to evolve its technology so that it not only offers maximum productivity, but ensures all equipment is sustainable and durable, with ease of service and maintenance being a key consideration. All the attachments are manufactured with efficiency in mind, enjoying less fuel consumption and reducing the impact on the environment.

Rotar states that the award winning piece of equipment will keep the Rotar brand at the forefront of the industry. To find out more about this award winning attachment visit: <https://www.rotar.com/nl/actueel/nieuws/rotar-winnaar-van-de-world-demolition-award-25>.



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LATEST NEWS IN TERMS OF DEMOLITION ROBOTS

Here's the latest news in terms of new demolition robots. The two major developments are that Husqvarna is widening its range by launching the 'DXR 95' robot and that the Polish manufacturer, Elgo-Plus, has released the 'Springer Eco' robot.

Most people are aware that the remote controlled demolition robot has its origin in Sweden, the same as with hydrodemolition robots. Swedish demolition robot brands are still dominant in the global market, with the founder of the concept, Brokk, still having the widest range available with some 10 base models. In second place comes Husqvarna which today has five models in the small to medium weight range.

More brands

Another strong brand is Top Tec from Germany that has been in the demolition robot field almost as long as Brokk, being founded in the early 1970s. Over the years, there have been a number of other small manufacturers such as Demec, Thordab that produced the 'DMX'

robot, and Finmac from Finland. In more recent years, a few other brands have popped up outside Scandinavia. German manufacturer Kiesel formed the company K-TEG and launched the KMD-RD22 in 2017. At more or less the same time, US company Alpine Cutter launched the 'Alpine Robot RDC'. The Spanish company Euro Implementos launched its 'RDC 15.10' in 2018. ES Robotics in the UK released a number of models in 2019 with the brand name 'Akula'. It is also worth mentioning Hong Kong based HD Engineering's 'HD' series of demolition robots as the company was once a distributor of Brokk robots in Hong Kong. In addition, there are also a number of mainland China manufacturers of demolition robots, and for a while at least there was also a Norwegian manufacturer of a demolition robots. With all this said, we are maybe

missing some brands such as one Italian company that produced about some models two decades ago.

Previously we have covered the development history of demolition robots and this feature is about what is new. As such we will be looking at a completely new demolition robot model from Husqvarna that will be launched at World of Concrete in January. We are also featuring a new player, Elgo-Plus from Poland, and the 'Azarrus' range of demolition robots from Russia.

Husqvarna invests in a new robot model that broadens the range
 PDi Magazine recently had the privilege of learning about Husqvarna Construction's new DXR 95 demolition robot, which will be launched at the World of Concrete show in Las Vegas in January, 2024. PDi's

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TECHNICAL DATA DXR 95

Maximum transport speed:	3km/h
Maximum slope:	30°
Hydraulic system:	30l
Maximum oil flow:	0-32l/min
Standard pressure:	180bar
Increased main pressure:	250bar
Weight:	589kg
Motor:	9.8kW
Speed:	1,417rpm
Voltage:	380-420V
Mains connection:	16A
Dimensions (width, length, height):	600cm x 1,510cm x 887cm

editor in chief had the opportunity to speak with product marketing manager, Niklas Tillbrandt and Light Demolition director, Fredrik Linnell.

Husqvarna was very happy to share the news and release information on its latest development with PDi before the premiere at World of Concrete. The DXR 95 is the manufacturer's lightest and most compact model to date and has been under development for about two years. It is considered by the company to be a major investment. The DXR 95 does not replace a previous model but is an addition to its range of demolition robots which is to be expanded, which after the DXR 95 launch consists of five models.

When Husqvarna Construction entered the demolition robot market in the early 2000s, it chose to develop robots in the weight classes that best met the needs of customers and are used the most. Husqvarna quickly became a worthy competitor to Brokk, which had dominated the market since the company was founded in the early 1970s. "We have worked intensively with this model for a couple of years and it feels great to now launch it and to share in the customers' positive response," says Niklas Tillbrandt.

Ease of use in focus

"When the actual development work was finished, we had operators from several countries test the machine in various applications and we received fantastic feedback. Everyone who has operated the robot has appreciated the high performance in relation to its size and the user friendliness of the upgraded remote control," says Fredrik Linnell.

The DXR 95 is a robot in the 0.5t segment and is intended for operators who want a strong demolition robot with high productivity which can be loaded onto

a smaller transport vehicle and can be driven with high precision in tight spaces.

"We previewed the robot at the SMOPYC trade show in Zaragoza, Spain, which was held in November and received a huge response. It was a bit of the highlight of the whole fair," says Fredrik Linnell.

The new DXR 95 is completely in line with the other models in the series. Two years ago, Husqvarna's entire range of demolition robots was updated with, among other things, a completely new control system, new remote control and an overhaul of the robots' basic architecture. The new DXR 95 is of course equipped with the same updates and has received some new features and benefits from further improvement of the remote control.

"DXR 95 will be a perfect solution for operators who want a compact and user friendly demolition robot that can be used for many applications in demolition. It goes into production in the first quarter of 2024, and the fact is that many customers worldwide have already ordered machines. We are really looking forward to starting our global launch of DXR 95 at World of Concrete in January," says Niklas Tillbrandt.

Small, strong and durable

The DXR 95 is electro hydraulic driven and delivers 9.8kW of power and up to 250bar of pressure all the way to the tool at the end of the demolition boom. Despite this, the machine weighs no more than 589kg, which makes it very easy to transport in a smaller van, and it is easy to set up and work with in tight spaces. It is also well balanced and easily handles tilt angles of up to 30° without feeling unstable when working. The new remote control is very user friendly and intuitive; the operating

levers and the various buttons have been ergonomically tested to make the operation of the machine smooth for the operator. It is easy to select and change settings even with gloves on. The remote control has a large bright LCD screen and it is possible to choose between a number of different languages.

"With its outstanding power to weight ratio and compact size, the DXR 95 answers the demand for a demolition robot that can fit into tight or delicate environments, and really deliver the power and performance that professionals need," says Fredrik Linnell. Niklas Tillbrandt adds that the DXR 95 is built for many hours of continuous tough demolition work and is perfectly suited for a range of tasks within traditional demolition and other industrial applications. "This versatile robot can deliver consistently high performance without interruption thanks to its good cooling capacity combined with a highly efficient hydraulic system," says Niklas.

The DXR 95 robot has been equipped with several other important features that prevent unnecessary downtime. These include a heavy duty arm system with robust friction welded cylinders, automatic hammer lubrication for longer service intervals and protection of vital parts in the tough lower chassis. All components are easy to access and remove to make service and maintenance quick and hassle free. The DXR 95 also gives the operator more flexibility. Using the remote control, the operator can easily adjust parameters such as water, grease and hydraulic functions to suit the operator's preferences as well as adjust pressure and flow to match the requirements of non-standard tools.

If you who are reading this and plan to travel to the World of Concrete fair, a visit to Husqvarna's stand is recommended.

www.husqvarnaconstruction.com



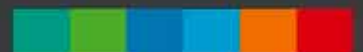
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New demolition robot brand from Poland

Elgo-Plus is based north west of Warsaw. The company mainly manufactures micro and mini diggers, tracked chassis for various applications and one remote controlled demolition robot. It is the first time the company has been mentioned in PDi Magazine, and its product range today consists of nine different mini diggers in various sizes, with petrol and electric drives. The equipment produced is characterised by simplicity, reliability and ease of use, which makes the Elgo-Plus machines very practical for many industries, including gardening, construction, process industry and even mining.

The company's demolition robot is called Springer Eco. It is a multifunctional tool that can be operated on battery power, which is a completely new function to the industry. It has an innovative battery charging system which is in the process of being patented. The batteries are charged automatically while the machine is connected to a power source, so there is no need for the machine to stop while the battery is charged, meaning it can work continuously.

First Europe and then North and South America

The Springer Eco demolition robot and all machines from Elgo-Plus are entirely developed and manufactured by the company. However, some parts come from other countries in Europe. "We decided to introduce remote controlled, electric demolition robots to our offer because the market demand for such equipment is constantly growing because construction work is

less and less performed by manual workers. Therefore, companies are forced to invest more and more into equipment that will speed up and facilitate many works and what is more, make them safer," says Andrzej Zielinski from Elgo-Plus.

Elgo-Plus started production in 2016 and markets its ranges almost all over Europe through a network of 11 dealers. The next step is to start exporting the whole range of equipment to North and South America. Andrzej says that the current market situation, due to the many events in Europe, has had a somewhat difficult impact on sales: "Our feeling though is that things are in the process of getting more stable and we are more optimistic for the coming year."

Strong cooperation with Swedish distributor Bohena

Elgo-Plus cooperated with the Swedish company Bohena and its owner Sten-Anders Fellman. Bohena is the Polish company's distributor in Sweden, Denmark, Norway and Finland since 2016. Sten-Anders says that his company has taken an active part in the development of new models. "Bohena has sold Epiroc hydraulic breakers since several years back; the Epiroc SB52 breaker fits perfectly with the Springer Eco demolition robot," says Sten-Anders.

The latest development is that the radio control and the battery power of the machine has no cable needed during the displacement of the machine or during small jobs. Doing larger projects, the machines are easily connected to a 400v power outlet and the batteries are charged dur-

ing work. If connected to 230v, the batteries are charged during parking. One advantage with Springer Eco is that besides it being a demolition robot, it can also be used as a 360° rotating mini excavator. It can also be equipped with a grapple for heavy lifting or material handling. The machine is delivered with a grapple, a quick hitch, three buckets and a ground frost hook.

www.elgoplus.pl
www.bohena.se

The Azarrus range from Russia

PDi Magazine has also come across a series of demolition robots developed and manufactured in Russia. However, we have very limited information about the Azarrus brand. It's manufactured by Moscow-based company Azarrus and comprises seven different models. The smallest Azarrus 1.0 is electric and has an operating weight of 1.1t and a boom reach of 3,672mm. Azarrus 1.0A weighs 1t and is battery driven and has a boom reach of 3,672mm. Azarrus 2.0 weighs 2.2t, is also electric, has a boom reach of 4,815mm. Azarrus 2.0A is the same as the Azarrus 2.0 but battery driven. Azarrus 5.0 weighs 4.4t, is electric powered and has a reach of 6,000mm. There is also a battery driven version called Azarrus 5.0A. The biggest model in the range is Azarrus 15.0, weighs 15t and runs on electricity. It has a reach between 4,000mm to 9,000mm but should be considered more of a drilling robot. There is also a range of attachments available including a breaker, crusher, grapple and wall sawing attachments.

www.azarrus.com

TECHNICAL DATA SPRINGER ECO

Electric engine:	6kW, Tamel (made in Poland)
Remote control:	Hetronic
Hydraulic pump:	8cc, Casappa (made in Italy)
Hydraulic pressure:	160bar
Oil flow:	25l/min
Batteries:	Two Briggs & Stratton 'Vanguard' lithium ion 5kWh (made in USA, with three year warranty)
Battery charger:	Vanguard 1,050w
Working time on batteries:	Four hours digging, hour and a half working with breaker.
Charging time on 230v:	Eight hours while parked but also charged by 230v or 400v while running.
Weight:	1,100kg (with counterweight)
Max height:	2.10m
Width:	80cm
Digging depth:	1.65m (175cm with quick coupling mounted)
Cooling:	Hydraulic oil cooler
Rotation:	360°
Operating modes:	Two operating modes: slow for precise work and fast for standard digging/hammer work





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VTN's communication manager Giusi Orlando by the RP3000.

ECOMONDO 2023

The 26th edition of the international circular economy trade show Ecomondo was held from the 7 to 10 of November in Rimini, Italy. The show boasted a 15% increase in attendance compared to last year, with over 1,500 exhibiting brands.

The Italian Exhibition Group's trade show Ecomondo has become somewhat of a tradition in the field of the circular economy, and although its main focus lies in the Italian industry, Ecomondo now attracts many international visitors and manufacturers. Compared to last year, Ecomondo had a 15% increase in attendance, as well as over 1,500 exhibiting brands, an increase of 10% when compared to last year.

New mobile fog maker from Idrobase

One of the exhibitors was Idrobase which highlighted its 'Airone' mobile fog maker with a rotating neck. It is designed for suppressing fine dust (PM2.5 and 10) and neutralising odours in medium sized areas. Another highlight was the 'Elefante' fog maker with 120bar, a fan jet of 80m and 135 nozzles.

VTN's new rail breaker combines two models into one

VTN launched its rail breaker RP3000 which combines the models RP2000 and RP4000. VTN's aim is to meet market needs with one single product. VTN also

highlighted the updated sorting grapple MD210 with a dual hydraulic motor and a lower rotation group.

Five tine polyp grabs from Rozzi

Rozzi highlighted its RP/RPG 503-603 polyp grabs, which consists of five tines with independent movement. Each one is operated by a double acting hydraulic cylinder. Another development shown was the electrohydraulic grab ER32-500SUB with two tines with synchronised movement which are operated by two double acting hydraulic cylinders.

Reduced working height in updated Arjes shredder

Arjes' Italian distributor, SCAI, exhibited the mobile shredder 'Impaktor 250 Evo II', which features reduced transport and working height. Other features include a revised quick change cassette and manually insertable waveform plates.

Latest offering in Tana's 440 shredder series

Tana exhibited the 'Shark' 440ET shredder, fitted with two VEM electric motors and quick connectors. It is designed to shred using electricity and drive on diesel. In

the words of Tana, the manoeuvrability enabled by the tracked platform, low operating costs and lower noise emissions come together in the 440ET.

Mantovanibenne dubs new rail breaker 'the new industry standard'

Under the slogan, 'the new industry standard', Mantovanibenne displayed the rail breaker MRB30R with a specific profile for facing sections of asymmetrical double T-beams up to category 60E1 (per EN 13674-41). The blade concept is designed to ensure that only the blades touch the rail and avoids unnecessary impact on the body when in use. It has a force of 350bar.

Screening buckets, cutter heads, and more from Simex

Simex exhibited the screening buckets VSE 2, 5 and 30. Each element is composed of five independent parts, designed to interlock with no welding. At its booth were also the cutter heads TFC 50 and 100 with continuous cutting. Simex also highlighted its 'ART' (Asphalt Repair Technology) for the regeneration of bituminous conglomerate.



Idrobase's Filippo Bedin and the mobile fog maker Airone.



Mantovanibenne's Jacopo Mantovani with the rail breaker MRB30R.



Josef Imp, senior vice president at Tana, in front of the Shark 440ET shredder.



Alessandro Ferrin of Simex and the patented ART.



An Indeco representative by the pulveriser IRP 18 X and the multiprocessor IMP 20



Dynaset's Teemu Kokko and Mikko Heikkilä.



Piero Pomaro, sales manager at Wreko, showing some of Wreko's offering.



Carlo Montorfano, sales manager at Brokk Italia, by the Darda MC300.



Hammel representatives by the primary shredder VB 750 DK.



Edgar Root and Michela Vallio with the Cayman 30R from Zato.



Elena Pallicelli of Volvo CE Italia standing by the EC230 excavator.

Rail cutter and orange peel grapple from Wreko

Wreko highlighted its 'WRD' rail cutter for the volumetric reduction of current Vignoles rails. The tool has 360° hydraulic rotation and is available in two models for 22t-60t excavators. Wreko also showed its orange peel grapple 'WPG' which is available with a standard claw for common use, wide claw for bulky materials and a heart shaped claw for fine materials.

Dynaset's hydraulic high pressure water pump in the spotlight

Dynaset showed the 'HPW' hydraulic high pressure water pump that converts the hydraulic power of a mobile machine, vehicle or vessel into high pressure water. The pump is said to provide low water consumption and an output power range of 10kW-200kW.

Wide array of Indeco tools on display

Indeco exhibited the mulching head IMH 3 with a cutting width of 610mm. Indeco also showed its multi grab IMG 600 with a maximum working pressure of 55bar. Other models on display were the hydraulic hammers HP 200 and HP 2500; the pulveriser IRP 18 X; multiprocessor IMP 20; and the shear ISS 8/13 4.0.

Brokk, Darda and Aquajet at Brokk Italia's booth

Brokk Italia exhibited the multi cutter 'Darda' MC300 with 360° hydraulic rotary drive, plus the demolition robot Brokk 110 (with a 360° working radius) fitted with a 'BHB' 155 breaker which is designed to deliver 850b/min to 1,900b/min. At the booth was also the hydrodemolition system 'Ergo' from Aquajet, devel-

oped for replacing hand lance work on floors, walls and ceilings.

Electricity and sustainability are Liebherr's focus

Liebherr presented the cable connected electric material handler LH 26 M Industry E. It is designed for temporary mains independent operation and can be equipped with a battery powered mobility kit. Liebherr also exhibited its first battery electric wheel loader L507 E as well as a T 60-9s telescopic handler which makes use of hydrotreated vegetable oil.

Three electric developments from Volvo CE

Volvo showed the excavator EC230 Electric which is designed to offer zero emissions, a maintenance free battery and boom float function. Volvo also showed the L20 Electric compact wheel loader, designed for

applications which require a 0.8m³ bucket capacity, as well as the compact excavator ECR18 Electric, a 1.8t class excavator with a 48v lithium ion battery.

Slow speed shredder 'Inventhor 6 Plus' from Doppstadt

The Inventhor 6 Plus is a mobile and modular machine that can be used in a variety of applications. It is equipped with an improved cooling system, a maintenance optimised engine compartment and an intelligent material feed. The Inventhor 6 features an MTU engine, while the 'Plus' version includes a more powerful Caterpillar engine.

Hydraulic demolition shear 'Cayman 30R' from Zato

Cayman hydraulic demolition shears have been developed for medium/heavy scrap recycling and are characterised by blades that are reversible up to four times as well as a second guide of the jaw with the tip being covered by the blade. The Cayman 30R weighs approximately 2.9t and has a 'C' reach of approximately 295cm; 'A' jaw opening of 63.5cm and a 'B' jaw depth of 59cm.

Primary shredder VB 750 DK from Hammel

On display at Hammel's booth was the company's primary shredder VB 750 DK. The long version of this model has an approximate shaft length of 2,000mm. Hammel also highlighted its primary shredder VB 850 DK with multifunctional shredding shafts.

After four jam packed days of business and networking, this year's Ecomondo came to an end. The next edition of Ecomondo will once again take place in Rimini from the 5 to 8 November 2024.



Sergio Polcelli, key account manager at Liebherr, standing by the electric material handler LH 26 M Industry E.



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European debut for the PC1505XL grinder and groover

In a tightly scheduled project in the summer of 2023, the runway at Ingolstadt Manching Airport was grooved for increased safety. The aim was to improve the drainage of rainwater by grinding new grooves, and to thus prevent aquaplaning. In the project, the new PC1505XL grinder and groover from the Tyrolit subsidiary Diamond Products successfully celebrated its European debut.

From mid-August to early September 2023, special grooves were cut into the concrete across the axis of a 1.1km section of the runway at Ingolstadt Manching Airport (ETSI). These grooves are precisely defined by the FAA (Federal Aviation Administration) in terms of width, depth and spacing, and are used to drain rainwater from the runway in order to prevent aquaplaning. The executing company of this project was the German company Silco Tec Umweltschutzsysteme GmbH, which already has substantial experience in the field of grooving. With regards to the machine, Silco Tec chose the PC1505XL grinder and groover from the Tyrolit subsidiary Diamond Products, as well as the respective Tyrolit diamond saw blades with ‘TGD’ technology.

66,000m² grooved in 19 days

The runway at Manching Airport is 60m wide and is divided into 6m x 6m fields. On the grooving shaft of the machine, the cutting blades were mounted in such a way that each 6m wide field could be processed in five passes, with the grooves reaching up to approximately 15cm towards the traverse joints. In total, an area of 66,000m² was ground in 19 days with this method.

After a short grinding-in phase of the new saw blades, the feed rate of the machine was increased to 12m/min and so the daily output required for being right on schedule was achieved without any problems. The grinding pattern and the edges of the grooves turned out to be excellent. The powerful machine integrated extraction system of the PC1505XL extracted almost all concrete slurry produced and the residues were then disposed of in accordance with the regulations.

Through intense project planning in advance as well as onsite support by the application engineer from Tyrolit and the two grinding experts from Diamond Products Inc., USA, the project was successfully completed by Silco Tec Umweltschutzsysteme GmbH on time and also in an impressive manner.



World of Concrete 2024 to feature Develon excavator trio

Develon, formerly Doosan Construction Equipment, will showcase three excavators at World of Concrete in Las Vegas in the USA from 23-25 January 2024.

Develon’s stand will be located in booth C7226 in the Central Hall at the Las Vegas Convention Center. The DX42-7 mini excavator, DX225LC-7X crawler excavator and DX140W-7 wheeled excavator will be on display. Develon staff will be available to help visitors explore each machine’s features. “Develon is excited to exhibit at World of Concrete, especially as the event celebrates 50 years in 2024,” says Jacob Sherman, product and dealer marketing manager at Develon. “This trade show gives us a chance to promote our new brand and innovative products that help customers take on their biggest job site challenges.”

DX42-7 mini excavator

The conventional tail swing Develon DX42-7 mini excavator is ideally suited for navigating tight, congested job sites and urban areas. Part of the next generation DX-7 series mini excavator lineup, the DX42-7 has been designed to offer such features as fast cycle times, efficient torque limiting piston pumps that respond to load demands and has a larger counterweight for improved balance and durability. The machine comes equipped with a standard thumb ready arm.

Two cab options are available: open canopy and enclosed cab configuration. Enclosed cab models come with standard heating and air conditioning and hands free Bluetooth audio. Operators have an improved view of the job site thanks to a framed full glass door, an optional rearview camera and high illumination LED lamps to see the workgroup. As with all DX-7 Series mini excavators, Develon’s fleet management telematics system is standard. This monitors the machine’s location, health and productivity from a user friendly website or mobile app.

DX225LC-7X crawler excavator

The DX225LC-7X is the first electronically controlled crawler excavator from Develon. The system is designed to enable advanced machine guidance and machine control systems, including 2D grading for accurate earthmoving and grading work. The DX225LC-7X is said to provide superior hydraulics and a strong work-

group to deliver ample power and durability to the arm and bucket, maximising lifting capability. An optional dozer blade and the standard counterweight design provide strength and stability. Operators can also activate the tiltrotator mode for enhanced precision when using a tiltrotator accessory. Added comfort features include improved heating and cooling with an optional heated/cooled seat, joystick controls, a rearview camera, smart touch screen and optional 360° around view monitor (AVM) camera system.

DX140W-7 wheeled excavator

Designed for demanding tasks, the DX140W-7 wheeled excavator is said to deliver powerful digging and manoeuvrability when working on bridges and roadways or in urban areas. The machine has been designed to provide a balance of power and fuel efficiency, along with what Develon claims are best in class comfort features, intelligent controls and smart machine functionality. It can be configured with a front dozer blade and independent rear outriggers or four independent outriggers.

Comfort features include automotive style heating and air conditioning, improved floorspace and excellent visibility from the spacious cab. A rearview camera is standard and an optional heated/cooled seat is available. The standard Develon fleet management system monitors the excavator’s health and maintenance schedule to help keep it running at peak performance.







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New Develon DX230WMH-7 & DX250WMH-7 material handlers

Develon has introduced its new DX230WMH-7 (24t) and DX250WMH-7 (25.6t) Stage V compliant material handlers. Both are designed to carry out the toughest tasks across a wide range of material sorting and handling applications such as those in the handling of scrap metal and other solid waste, recycling, demolition and in the forestry industry. As a result, both machines are built with front and rear stabilisers, and a boom and arm specifically designed for material handling tasks.

The new material handlers are equipped with the latest generation Develon six cylinder, turbocharged DL06V water cooled diesel engine, providing an output (SAE J1995) of 141kW at 1,900rpm. Develon states that reducing environmental impact is paramount, so the engine has been designed to have extremely low emissions as exhaust gases are purified by selective catalytic reduction (SCR) technology, a diesel oxidation catalyst (DOC) and a diesel particulate filter (DPF).

A standard feature is the hydraulic cab riser, which is designed to give the operator better all round visibility of the attachment and work area. When combined with the rear view camera display in the cab, the operator is said to have excellent visibility of the job site. The new material handlers are also said to be easy to operate with ergonomic joysticks and a steering wheel. The machines come equipped with two way

auxiliary and rotate circuit hydraulics to improve efficiency. The operator can use buttons on the joysticks or an optional foot pedal to control auxiliary attachments.

A special Develon developed system, 'Smart Power Control' (SPC), is said to improve machine efficiency while maintaining productivity through variable speed control and pump torque control, automatically adjusting rpm according to the load being handled. The SPC can be used with all four work modes available on the material handlers. These power modes are designed to help the operator to marry the balance of fuel consumption and machine power to the working conditions. In addition to the four power modes, the new material handlers include a lifting work mode, which provides increased pump torque, low engine rpm and an automatic power boost.

The DX230WMH-7 and DX250WMH-7 have Develon's latest fleet management TMS 3.0 cellular system installed as standard, which provides a telematics management system for these models by collecting data from sensors on the machines. The telematics provides location information and a full range of machine operational information to owners, dealers and Develon. Information is provided through a simple user interface, accessible online via a web enabled computer or smartphone.

Introducing the new hand held drill from Diamond Products

The CB215 hand held drill motor is a light weight drill for coring up to 75mm diameter holes by hand or up to 150mm mounted on a core rig. This motor has a three speed gear box with slip clutch and locking gear lever. The 'D' shaped handle has been designed to make it comfortable to hold and use. A side handle is used for stability, which can be removed to mount on a rig. The CB215 features an integrated convertible port that allows quick change from water feed for wet drilling through to the spindle dust collection for dry drilling. The motor includes a sturdy carrying case, wrench, wet and dry attachments. This electric motor is powered by 115V and 1,800W. The rpm ratings are 1,000/1,600/4,450 respectively, allowing the correct dialling speed for the bit being used. An LED load indicator light alerts the user if too much pressure

is being applied. The CB215 hand held drill motor is part of the 'Core Bore' line of drilling products and is one of many hand held options that Diamond Products offers.





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What a great time to be in the market for a new compact loader or skid steer!

Manufacturers continue to roll out new products with the power that rivals their larger brethren, yet with efficiency and productivity that keeps operating costs comfortably low. The range of electric options is also expanding as well, providing benefits for both sustainability and working in close confines. While specific machines may not be available in every market, or go by different model names, the descriptions provide a helpful benchmark for comparing products and making wise purchasing decisions. So take a look...and get to work!

Kubota introduces SVL75-3 compact track loader

Kubota's SVL75-3 replaces the SVL75-2 model and is equipped with a wide range of performance, comfort and productivity features. It's powered by a 55.4kW

Kubota engine and has a rated operating capacity of 1,129kg at 35% or 1,613kg at 50%, an impressive 27.5kN of breakout force, and a hinge pin height of 3,117mm. An 'Advanced Multifunction Valve' (AMV) helps ensure smooth movement of all hydraulic func-



tions with a lower risk of stalling. The 'Electronic Travel Torque Management System' monitors machine load to optimally control hydraulic pump output. Other features include two speed travel and an 'Advanced Auto Downshift' system that automatically downshifts from high to low gear while making turns. The SVL75-3 is equipped with Kubota's new one piece sealed cab designed to prevent dirt, dust, rain, and debris from entering the cab while also reducing noise levels. The one piece sealed cabin can be tilted up 1,435mm without having to lift the boom, providing access to the hydraulic pumps, valves, lines, and hydraulic tank.

www.KubotaUSA.com

ASV's Yanmar powered RT-40

ASV's repowered RT-40 'Posi-Track' loader has a 28kW Yanmar engine and features a 1,227mm width, 2.56m

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lift height, and a top speed of 11.4kph. The machine also boasts high tractive effort, being designed for exceptional pushing and digging power. The RT-40's quick attach fits a variety of attachments and works with an optional adaptor plate for full sized or walk behind/stand on loader attachments. The RT-40 comes standard with variable auxiliary hydraulic flow and can operate efficiently at a high auxiliary circuit flow rate. Labour intensive belt servicing is eliminated thanks to a direct drive pump, which, along with the machine's large line sizes and hydraulic coolers, transfers more flow and pressure directly to the attachment to help prevent power loss. The RT-40 is tested to operate at full load 100% of the time in ambient temperatures ranging from 40° to 40° to 47.7°. Its cab features rollover and falling object protection, sheltering operators from outside elements with available enclosed configurations designed to eliminate the fatigue that comes with standing. With 274mm of ground clearance, the RT-40 is designed to travel over rocks, logs, stumps, and other obstacles with less risk of getting hung up.

www.asvi.com

Mecalac launches multifunctional compact loader line for North American market

Mecalac has launched a new product line of robust compact loaders to North America comprising of six models: MCL2, MCL4, MCL4+, MCL6, MCL6+, and MCL8. The MCL2 and MCL4 models have an 18.6kW engine, while the remaining models come with a 36.5kW engine. Each machine has been designed for transportability between jobsites with transport weights ranging between 1,740kg and 2,850kg and minimal width ranging from 1m to 1.3m depending on tyre selection. Mecalac's 'M-Drive' and speed control features - standard on the MCL6 and MCL8 models, and optional for the MCL2 and MCL4 models - allow the loader to function as a tool carrier, providing control of rpm by hand throttle and speed via a foot pedal. Each model in the series has an option for auxiliary hydraulic lines on the boom and at the rear of the machine, as well as 12v three pole plugs which further enhances versatility by allowing the use of hydraulic attachments on either end of the machine.

The series aims to maximise attachment possibilities with 30l/m flow on the MCL2 and MCL4 models and

60.2l/m flow on the MCL6 and MCL8 models. The MCL4+ and MCL6+ models come standard with a short boom, whereas the other four models come with a long boom. The optimum height to width to length ratio ensures agility on any jobsite. Each machine has a 45° articulation that keeps the front wheels traveling in the same path as the rear wheels while driving.

www.mecalac.com

Also from Mecalac, the AX1000

Mecalac's new AX1000 articulated loader has been designed to combine performance with self-stabilising manoeuvrability along with a monoboom. Combining large, tinted windows with the monoboom design, the AX1000 eliminates the two loader arms obstructing the operator's view providing clear visibility and with enhanced safety, whilst boosting productivity. It is also designed to offer greater stability because the machine's pivot joint is offset at a positive angle. As the machine articulates, the centre of gravity is transferred to the rear, so it can re-level itself, greatly reducing the risk of the machine toppling over. The AX1000 has a standard bucket volume of 1m³, a 56kW engine, and a lift capacity of 4,100kg. It is also designed to maintain lifting power from the ground to its highest point. The machine's interior features have been updated with the ergonomically laid out pilot control designed to condense multiple functions from the auxiliary hydraulics into one joystick. The cabin includes a multi position comfort seat, glove box with ample storage space and a powerful three stage ventilation and heating system.

www.mecalac.com



Yanmar introduces compact track loader

Yanmar's TL100VS is the first machine in the company's compact track loader line. It features a Tier 4 Final Yanmar diesel engine; a torsion axle suspended undercarriage with a pivot link system at the rear axle and large line sizes. Features range from error detection and notification to real time operational status updates and daily work reports. Bar tread tracks are designed for ride quality and vibration resistance. Yanmar has also launched the construction grade TL65RS, TL75VS, and TL80VS machines.

Manitou/GEHL updates compact loader lineup

Manitou/GEHL used ConExpo 2023 to launch three all new 'V' series compact skid steer loaders and three 'VT' series' compact track loaders. These new models have a capacity of 953kg to 1,247kg. Breakout force is now 12% higher on average, compared with the previous range, while the tank capacity is increased by 14% for greater productivity. All models are vertical lift and feature a new lift arm design, as well as keyless start requiring only code activation, LED lighting, and a patented pilot joystick system. For added comfort, the track loader range is equipped as standard with the patented 'IdealTrax' system designed for automatic track tensioning and extending the life of the tracks. Numerous options are also available to meet the requirements of each user. The operator's station has been redesigned with an improved version of Manitou/GEHL patented folding door, as well as a new window and roof design for better sightlines.

www.manitou.com/www.gehl.com

Bobcat unleashes its most powerful compact wheel loader

Bobcat's new L95 is the company's largest and most powerful compact wheel loader. With a standard

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bucket capacity of 9m³ and 3.2m of lift height, the L95 has been designed for material handling and other jobs that require high manoeuvrability. Its electronic hydrostatic transmission has been designed for easy direction changes, efficient acceleration, and effortless speed control. A combination of transmission and horsepower management automatically adjusts the loader's drive system to maximise pushing and loading power. Standard features on the L95 include flex drive, automatic ride control, high flow auxiliary hydraulics, and an attachment control mode. The Tier 4 turbo-charged engine delivers high torque performance and efficiency, while achieving emissions compliance without the use of a diesel particulate filter (DPF) or selective catalyst reduction (SCR). Bobcat compact wheel loaders come standard with the 'Power Bob-Tach System', allowing operators to share buckets, forks, angle brooms, snow pushers, grapples, snow blowers, augers, and other compatible attachments with other Bobcat equipment for even greater versatility.

www.bobcat.com

Also from Bobcat, a preview of the world's first all-electric skid steer loader

At ConExpo 2023, Bobcat unveiled the S7X, a prototype of what the company says is the world's first all-electric skid steer loader. Like the T7X, the S7X is powered by a 60.5kWh lithium ion battery, features electric drive motors and utilises ball screw actuators for lift and tilt functions. The S7X is designed to balance

sustainability and performance with zero emissions and is said to be equipped to outperform its diesel powered equivalent, all while offering operators a smooth and comfortable experience with minimal vibration and nearly silent operation. The machine can operate for up to eight hours on a single charge depending on the application, giving most operators more than a full day's work when breaks and downtime are considered. A full charge takes approximately 10h. To bring the S7X to life, Bobcat partnered with Moog, Inc., a worldwide developer of motion control components and systems for industries ranging from aerospace and defence to construction. Bobcat also collaborated with Moog through its work on the T7X. Bobcat has yet to announce when and where the S7X will be made available.

www.bobcat.com

Wacker Neuson's new compact track loader

Though the smallest model of Wacker Neuson's lineup of compact track loaders, the new ST27 is said to be a powerful addition to the company's compact medium frame size lineup. Weighing in at 3,334kg, this machine is easily towable and with a rated operating capacity of 857.3kg at 35%. When combined with the ideal operating weight of a 55.2kW Kohler KDI 2504 turbocharged engine, the ST27 offers an attractive power to weight ratio. The compact design, measuring 1,524mm wide and under 2,032mm in height, is designed for working in tight spaces with low overhead clearance. The design also offers a reach at dump height of 927mm, making it

is easier to dump material into the centre of a dump box while also keeping the loader farther away from the vehicle or trailer being loaded. For vertical lift, ST27 offers a hinge pin height of 3,048mm and dump height of 2,395mm.

Driving is designed to be enhanced via a standard auto shifting two speed drive system that can be active or disabled based on the application, with the system said to automatically sense the operators need to shift. The auto feature engages in and out of the two speeds based on joystick input. The vertical loader arm linkage is designed to maximise visibility to the rear. The shape of the rear linkage aligns with the cab posts in the operator's line of sight in order to minimise visual obstructions, creating a better view to the rear. Additionally, the dedicated track frame design allows for a lower profile loader arm orientation, vastly improving side visibility. The ST27's cab fully tips forward with the loader arms down, providing complete access to all maintenance components. The machine is engineered to be user friendly with a simple, open design and efficient layout.

www.wackerneuson.com

John Deere expands 'P-Tier' lineup

John Deere has expanded its 'Performance Tiering' offering with the shift from 'L-Series' to P-Tier for the 244, 324, and 344 compact wheel loader models. The new P-Tier compact wheel loaders will carry over all L-Series features while also introducing new productivity enhancing qualities as standard features. Ride control, previously an optional upgrade on L-Series models, is now standard on all P-Tier compact wheel loaders. Ideal for customers moving materials over long distances, or on hard surfaces, ride control is designed to cushion boom movements during transport, acting like a shock absorber to help minimise material spillage. In addition, P-Tier compact wheel loaders feature 'Articulation Plus' which enables rear wheel steering. This steering system combines 30° of standard articulation with an additional 10° of rear wheel steering.

Designed to provide increased ease of use for operators when utilising attachments, the upgraded combined creep control and throttle lock found within the attachment assist controls package allows users to run the machine with higher rpm and lower ground speeds with overall fewer manual inputs. An enhanced 'pause and resume' function means that reactivating the feature after a change in direction or switch to neutral is seamless. An additional feature now offered on P-Tier compact wheel loaders is an optional auto reversing fan, which is said to be a solution for customers operating on sites with an abundance of debris or dust. Additional options include attachment assist controls, which include integrated three pin electrical controls for attachments and combined creep control and throttle lock.

www.deere.com

CASE's new mini track loader

With an operating capacity of 454kg and a compact profile that is designed to manoeuvre through yard gates and other tight areas, the new TL100 mini track loader is designed to provide contractors with a powerful, cost effective option for upleveling productivity on small jobs. The 17.7kW machine also features a 14pin electrical connector and a common industry interface (CII) for attachment flexibility and performance. With more than 40 attachment options available, the TL100 is designed for such jobs as digging, earth moving, setting fence posts, grappling brush, and grading. Thanks to its compact size, the machine is easy to transport from site to site, easy to get on and off, and causes minimal disruption to the ground. The construction grade build is





designed for toughness and power, empowering crews to work more efficiently than ever with less manual work.
www.CaseCE.com

Meet the new line of small articulated loaders from CASE

CASE's small articulated loaders comprise of a six model line featuring power ranges from 17.7 to 44.4kW; an operating capacity from 680kg to more than 1,360kg, options for diesel or fully electric, and a full range of more than 110 attachments. Several of the small articulated loaders, including the SL12TR model released this autumn, feature a telescopic arm to provide an extra-long reach for loading trucks or moving material into tough to reach places. Where lifting capacity is a priority, CASE will offer more rugged models with traditional Z bar loader linkage designed for heavier loads.

In 2024, Case will launch the all-electric SL22EV that is said to deliver the same power as its diesel counterparts and can be fully charged in one hour. This electrified machine is designed to provide a low noise, zero emissions solution for getting work done in a broader range of environments, whether it's indoor work where air quality is paramount or a close quarter residential neighbourhood where contractors need to keep noise levels down.

www.CaseCE.com/SMAT

New Holland debuts small articulated loaders

New Holland Construction has a new five model line of small articulated loaders. The ML12 showcases a lifting capacity of 1,100kg, tipping load capacity of 1,000kg, and lifting height of 2,169mm. With a width of 919mm, the 1.1t ML12 also features an electro hydraulic controlled differential, hydrostatic four wheel drive, standard lift path, and a common instrument interface (CII) mechanical attachment coupler.

With the same horsepower and width as the ML12, the ML12T is designed to excel with its telescopic reach arm loader and lifting height of 2,819 mm. This extended lift allows operators to load and unload materials from large trucks, while the extended reach provides more flexibility in dumping, levelling and grading tasks. Multiple tipping load paths of up to 748 kg, depending on loader position and 1,200 kg operating weight works well in light construction scenarios such as moving light debris and pallets. Displaying a 1,400kg lifting capacity and 1,500kg tipping load, the ML15 is designed for heavier materials. Its 19.3kW engine and 1,575kg operating weight sup-

port a cab that features a safety entry bar, non-suspension vinyl seat, armrests, and exterior mirror features to create a comfortable driving experience.

The ML22X model is New Holland Construction's first electric powered small articulated loader. When fully charged, the 24.9kW lithium ion battery powers the machine for up to six hours, depending on the task. Multiple charging options are available to meet the various needs of operators. The onboard charger fully charges the battery from 0 to 100% in just under nine hours, while the fast charge connector provides a full charge in less than two hours. It has a lifting capacity of 2,200kg, tipping load of 2,054kg, and lifting height of 2,451mm. Finally, the ML23 showcases a 2,451mm lifting height, 2,260kg tipping load, a 2,200kg lifting capacity, and 19.3kW at 2,300 rpm, and has been developed for easy transportation and loading.

www.newholland.com

CAT's new 255 and 265 compact track loaders

The CAT 255 and 265 compact track loaders feature new 55.4kW engines designed to maintain horsepower across a wider rpm range and boast significant torque increases with gains of 13% for the 255 and 43% for the 265. A redesigned engine compartment mounts the engine and cooling package lower into the frame for improved stability. Compared with the 259D3 model, the new 255 loader delivers 36% more tilt breakout, 26% higher lift breakout force, and a 24% increase in rated operating capacity. Height to the B-pin for the 265, compared to the 289D3, increases by 193mm, resulting in a maximum lift height of



3.35m for easier truck loading. The 265 also delivers 19% higher tilt breakout force and 22% higher lift breakout force. The closed centre auxiliary hydraulic system allows the 255 and 265 to operate all CAT 'Smart Attachments' with the standard auxiliary hydraulics provided.

Reengineering of lower machine components has been designed to deliver a stronger and stiffer undercarriage for improved machine stability and less pitching when filling the bucket with material. Its torsion suspension undercarriage is said to deliver better operator comfort, track wear, and material retention, while the stiffer design results in smoother graded surfaces. Both the 255 and 265 compact track loaders feature a larger cab design. A range of new mechanical and air ride suspension seat options are available, including a 'high comfort' seat that is both ventilated and heated. New auto temperature control plus vent outlet positioning above the operator is designed to help the new HVAC system quickly cool the cab's interior.

The new compact loaders feature a low entry point which is designed to make entering and exiting the loaders much easier. The operator can open the cab door without the lift arms being fully lowered to the frame stops. Visibility is said to be improved via the lower engine mounting, a 59% larger rear window and bigger top window that are designed to provide a 15% increase in viewable area.



Yanmar's New V7 Compact Wheel Loader Features Premium Capabilities and Speed

Yanmar Compact Equipment introduces the all-new 35-kW V7 compact wheel loader to the North American market. The 4,250-kg machine fills the gap in the Yanmar wheel loader line between the V4-7 and the V8 and features a low operating weight, comfortable cab area and high bucket capacity. Its compact design, intuitive controls and high travel speeds maximize performance and efficiency for operators in landscaping, rental, municipalities, snow removal and other applications.

The V7 features a 0.7 m³ bucket capacity, with optional light material bucket brings increases bucket capacity for additional productivity. The compact wheel loader also includes a powerful Tier 4 Final Yanmar engine allowing for a lifting capacity of 35.5 kN. In addition, the V7 features approximately 40 degrees of articulation and includes a newly designed articulation oscillation joint allowing oscillation in the center of the wheel loader instead of the rear. This maximizes ground contact with all four wheels for optimal tractive force.

Ergonomic joystick controls simplify machine operation. Creep mode allows for precise attachment control while Automatic Ride Control with Limited Slip Differential improves convenience and efficiency. Operators can easily access relevant machine information and options via a color display.

Bright LED lights improve work area visibility while optimizing power consumption. Hydraulic quick couplers allow fast attachment change-out. Contractors can lift loads without the need for constant readjustment of the load angle thanks to the V7's parallel kinematics which keeps material level as its raised and lowered

www.YanmarCE.com

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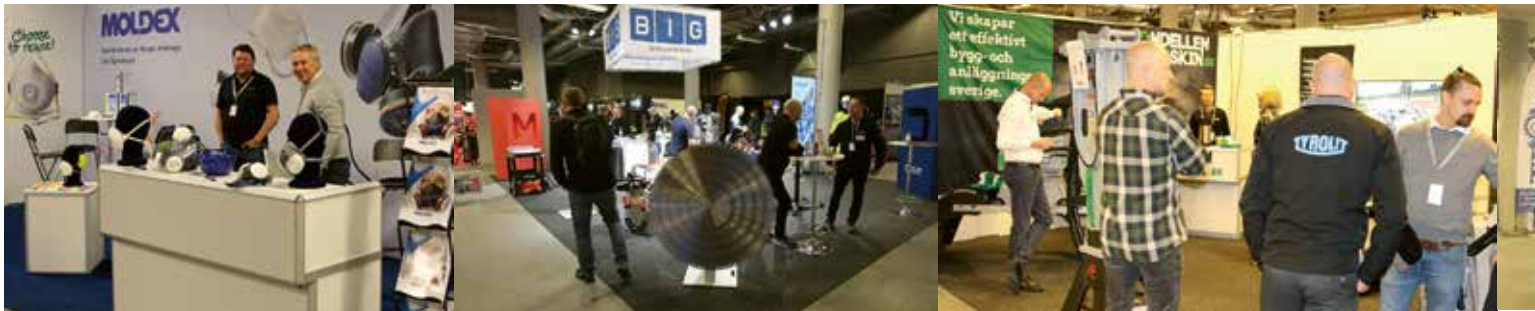


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The Swedish demolition industry is still doing well, despite the recession. The need for housing is still great, but there is a certain slowdown in construction that favors the renovation and re-building sector. As long as we live with this situation on the construction market, the risk of a housing bubble bursting is not that big, something that bodes well for DEMCON 2024.

“Despite a slightly more difficult market situation, I believe that DEMCON 2024 has a good timing. I hope that the unrest in the world has subsided a bit by the fall of 2024 and that there is a need and willingness to

invest. Our contractors still have a fair amount to do, but some may feel the downturn more than others. At the same time, the competition is strong. It is important to differentiate yourself from your competitors with greater know-how, more efficient machines and methods and more efficient tools. Here, our suppliers have a challenge to capture this and DEMCON then becomes an even more important meeting place. The beauty of the demolition industry is that even if you live in a recession, the jobs don't usually run out. There are always renovation and re-construction jobs,” says Jan

Hermansson, who is responsible for DEMCON.

9th Edition of DEMCON

DEMCON 2024, which is once again held at the Infrafair in Bredden north of Stockholm, is being organized for the ninth time since its inception in 1998. The focus is the same since the beginning, that is, the tradeshow focuses on the industry that has the collective name of demolition. Demolition includes sectors such as concrete cutting, demolition, recycling, remediation, grinding and polishing of concrete floors, dust and slurry mana-



gement, water treatment and more, all in all the services that our contractors offer. "During the roughly 30 years that we have worked with the demolition industry, it is interesting to note that many contractors have embraced so many more techniques than what they originally worked with. Today, offering demolition services or grinding of concrete floors is almost a matter of course if you are a hole puncher, for example. A lot has happened to the industry and it is precisely this development that the fair DEMCON has been reflecting since the end of the 1990s," says Jan Hermansson.

Great interest

The tradeshow will be held on September 19-20, 2024. The starting field of exhibitors is basically the same as the show in 2022, but some new exhibitors have been added. "Ahead of DEMCON 2024, the interest is greater than it usually is. For example, even more diamond tool manufacturers from India will exhibit," says Jan Hermansson. There will be intensive tradeshow days with an indoor and outdoor part. On the evening of September 19, the "DEMCON party" will be arranged as usual. In connection with that, the winners of the Swedish De-

molition Awards are also announced. The nomination process has already started in full swing and those who wish to nominate manufacturers and contractors are asked to submit nomination documents which can be downloaded on the page www.professionieldemolering.se/demoleringspriset. "It's always fun to start preparing for a new DEMCON event and we always start about a year before the fair so now is the time. The tradeshow's website is active so you can go in and book a stand directly on the website," concludes Jan Hermansson.



Then it is once again time to start thinking about how to nominate the country's best companies in demolition, concrete cutting, recycling, remediation, grinding and polishing of concrete floors, etc. The registration documents for the industry competition are now released. The Swedish Demolition Award was launched for the first time in 2012 and is now being organized for the sixth time. The prize is awarded by the Scandinavian trade magazine Professionell Demolering in collaboration with BFB, which is the Swedish association for concrete cutters and demolition contractors. The winners of the Swedish Demolition Prize 2024 will, as usual, be announced at the DEMCON party held on the evening of Thursday, September 19, 2024, after the first show day of DEMCON at InfraCity in Stockholm.

Nominate your company

But before that, the nomination process starts and all professional players in the industry that bear the collective name of the demolition sector are welcome to submit their nomination proposals. Remember that a company can nominate itself and no one else has to do it for you. The most



Det Svenska Demoleringspriset



important thing is that you clearly describe why you think your particular company should be nominated. Of course, you can also nominate any company that you think deserves to win the award in any category.

The categories of the Swedish Demolition Prize:

1. Demolition contractor of the year
2. Drilling contractor of the year
3. Remediation contractor of the year
4. Demolition project of the year
5. Concrete cutting project of the year
6. Remediation project of the year
7. The safety and working environment award
8. The recycling and environmental price
9. The Swedish Hydrodemolition award

10. Manufacturer/supplier of the year

11. The major innovation award for manufacturers/suppliers

12. The Swedish Demolition Prize's "Honorary Award"

The Award jury

The entries submitted for nomination will, as usual, be reviewed by the award's jury. The jury consists of a number of well-known, previously active, names in the demolition industry, key people in the Swedish construction industry and representatives from BFB and the industry magazine Professionell Demolering.

Obtain notification documents

To request entry documents for the award, they can either be downloaded directly from the magazine Professionell Demolering's website at the link www.pdworld.com/demoleringspriset or ordered from SCOP AB on phone +46 (0)700 300 650. Don't miss the opportunity to nominate your company for the Swedish Demolition Awards 2024.

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CONCRETE CUTTING INDUSTRY?

To put a figure or a value on the global and professional concrete cutting industry is almost impossible, although PDi has for many years, with help from the IACDS, tried it. Recently however we have received some updates from some markets, and despite pandemic, war and recession in many parts of the world, we've had another go at estimating the size of this important industry sector.

Until 2018 the international umbrella association for concrete cutting contractors, IACDS, conducted an annual survey to estimate the value of the global concrete cutting market annually. However, since 2018 this work has not been undertaken nor summarised at a global level.

PDi's Concrete Cutting Survey

PDi until 2018 used the IACDS own figures and published what we termed the 'Concrete Cutting Survey'. Due to a lack of input it has been very difficult to estimate the size and value of the industry. However, PDi has now been talking to some representatives from different countries and we are now able to publish somewhat updated figures regarding the value of the global market, including how many professional concrete cutting contractors are operating in each country.

Pandemic struck hard in Australia, but business has now recovered

In the table shown we have received updated figures for 2023 from Australia, Brazil, Argentina and the United Kingdom. For the Australian figures Lloyd Williams, managing director of Traxx Construction Products, has been very helpful. Lloyd has extensive and well documented experience working with the Australian concrete cutting and demolition industry. For many years he worked for Husqvarna Construction Products and for the last couple of decades he has run the company Traxx. The numbers presented from

Australia show a variance when compared to previous surveys, but the current numbers should be correct plus or minus 10%.

Lloyd comments that the Covid pandemic had a major strong impact on the business. "Most of the Australian concrete cutters claim that Covid impacted their businesses by minus 55% to 60%, but the majority say today that most of the business lost has now recovered. The general opinion is that all States of Australia are working at a medium to strong level. Contractors feel that the lack of skilled operators is a major threat to their businesses. A problem is that younger people seem not to be attracted to the industry, despite the Australian concrete cutting association's best efforts."

Increased use of remote controlled robots takes business from sawing and drilling in Brazil

We are also happy to provide updated numbers for the Brazilian market thanks to estimates from Husqvarna Construction Products. The figures have been provided by Divanil Antonio Merlo at Contractor Direct, Sales Department Brazil, and André Menezes, VP Sales & Services, Emerging Markets. Menezes points out that the figures are Husqvarna's own perception of the market and it doesn't mean they are actual numbers and that they do not entirely reflect entirely current market conditions. However, Brazil doesn't have a national association, so PDi is very happy to provide these figures as they hopefully are rather close to reality.

"The Brazilian estimates are taking into account

contractors that work with controlled demolition as well as concrete sawing and drilling. There has been a slight reduction of companies from previous figures which has to do with that some small and medium sized contractors have stopped providing these services or changed their activities," says Merlo. He adds that Brazilian rental companies are now offering drill motors and different types of sawing machines, including with an operator. This fact has resulted in that it has become less expensive to rent these services when compared to ordering them from a small or medium sized contractor.

"In terms of revenues in Brazil, the larger contractors with more than 10 employees have increased their revenues in recent years. If these contractors are excluded in the figures, possibly the annual revenue will drop some 50%," says Merlo. He also points out that the Brazilian market has seen an increase in the use of remote controlled demolition robots which in several cases has replaced concrete sawing equipment in the demolition of chimneys, water tanks, reservoirs, etc.

Number of association members up in the UK while turnover has gone down

In the United Kingdom, the Drilling & Sawing Association has provided updated figures through its secretary Joel Vinsant. The number of members in the association has increased by almost 10 companies, but the total number in the country has gone down by 35 companies. Also, the average turnover per year has decreased extensively as well as the total market value.



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Argentina up against tough challenges

New to this survey is Argentina. Right now, the Argentinian economy is experiencing a very difficult time with galloping inflation estimated to be over 160%. The new president, Javier Milei, has stated that he will implement 'shock economic measures' that will devalue the country's currency and cut subsidies, amongst other things. The construction sector, like almost all other business areas, is experiencing very difficult times. The professional concrete cutting sector in Argentina is very small with one man cutting firms and demolition firms that offer some concrete cutting is omitted from the total. It is estimated that there are maybe some 8-10 larger concrete cutting firms with more than 10 employees, and a maximum of 30 small to medium sized concrete cutting firms that in most cases offer drilling and sawing services.

The global market value of concrete cutting

If we then again try to calculate the total market value of the international concrete cutting market, we arrive at the following figures. First, it should be noted that these are professional concrete cutting contractors that almost exclusively work with drilling and sawing in concrete, and to a certain extent, controlled demolition and demolition with demolition robots. There are 1,982 companies globally that are affiliated to national concrete cutting industry organisations. The total number of companies in the world where a company's major focus is concrete cutting services of some sort is 15,895. The figure could however be more than 50 times that number if all contractors that offer some form of drilling and sawing services is counted. These 15,895 companies have an average turnover of €17.35M making the total market value be €12.33B. It is important to mention

Country Association	Association Members	Total number of contractors	Average revenue company in US\$	Estimated total US\$
Argentina	0	30	275000	8200000
Australia**	89	830	845000	702000000
Austria	37	130	825000	107250000
Brazil	0	350	500000	175000000
Canada	28	350	600000	210000000
China	0	1000	300000	300000000
Czech Republic	0	50	500000	25000000
Denmark	35	150	600000	90000000
France*	35	250	1400000	350000000
Germany*	730	1200	450000	540000000
India	0	700	400000	280000000
Ireland	40	60	300000	12000000
Italy	13	200	600000	120000000
Japan*	84	1800	1000000	1332000000
Korea	0	730	1000000	730000000
Netherlands	110	400	500000	200000000
New Zealand	40	120	400000	60000000
Poland	0	120	300000	48000000
Portugal	0	30	300000	9000000
Russia	26	500	355000	178000000
Spain*	20	60	500000	60000000
Sweden*	120	380	900000	342000000
Switzerland*	110	4000	1000000	400000000
Thailand	0	70	400000	28000000
Turkey	0	80	600000	48000000
United Kingdom*	106	200	1000000	200000000
United States*	360	2500	2700000	675000000
TOTAL	1983	16290	18550000	13304450000

* Member of the international umbrella association IACDS
 ** Not including suppliers

that the average annual turnover of €17.35M is an estimated average. There is a large group of contractors

that turnover far more than that average and several thousands of contractors which turnover far less.

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New diamond tools

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As the year is winding down, the time has come to sum up some of its results. After almost two years of an ongoing standoff, the global economy is beginning to feel negative effects. A recession is showing signs of setting in, and the outlook for the upcoming year looks rather bleak. Still, we at PDi are hoping for the best. Below is a report by Andrei Bushmarin on the latest innovations in the diamond tool industry.

Ashine launches new range of polishing pads

The most challenging part in concrete polishing applications is not the quality of gloss, but the scratch pattern. Sometimes when users polish a floor up to 400#, it is frustrating to see the scratches on the floor. To make the polishing work easier, China based grinding and polishing specialist Ashine Diamond Tools has developed new resin diamond technology. Following a three year research and development period, Ashine came up with the G.3 ceramic polishing pads for metal-resin transition. As rigor-

ous tests have proved, the new G.3 pads 50# easily remove scratches left by a 16# metal diamond disc.

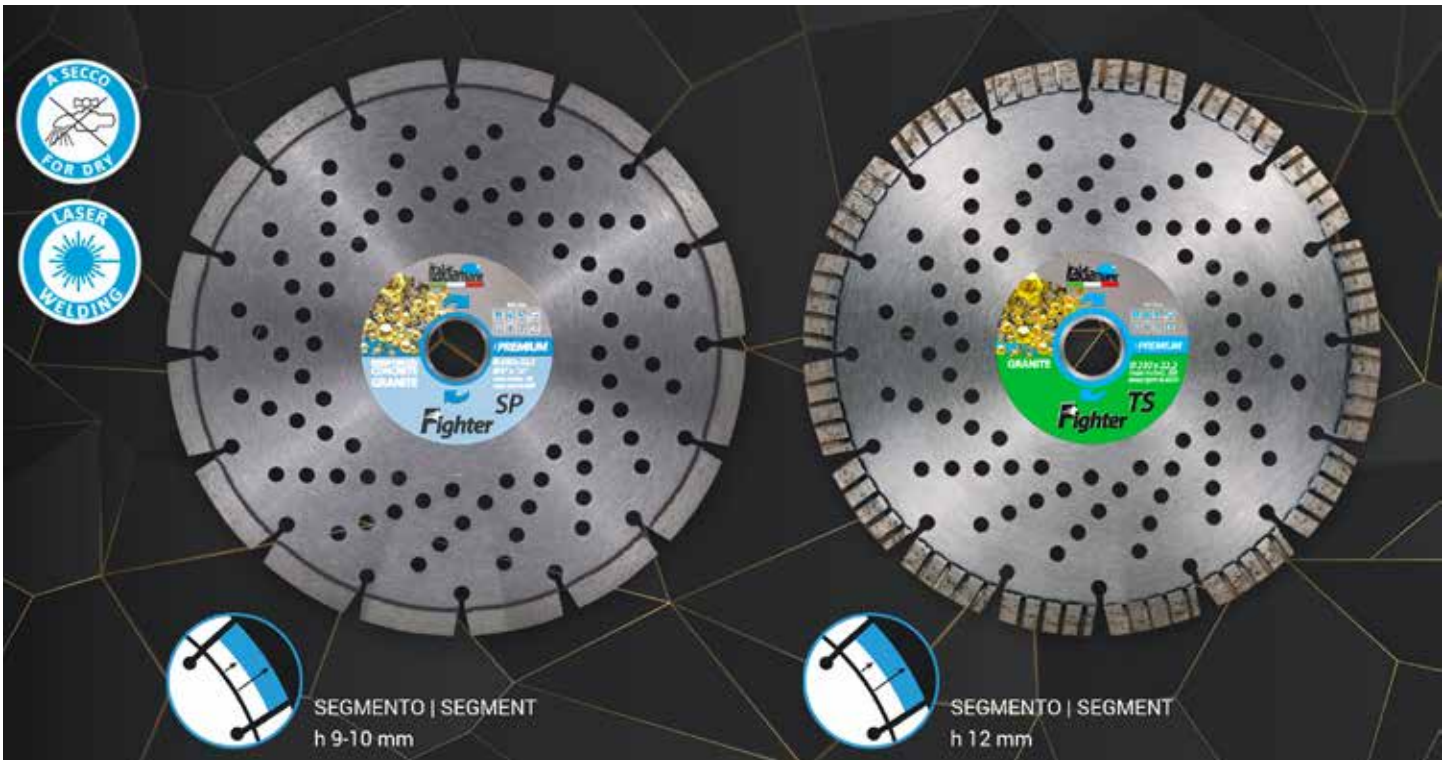
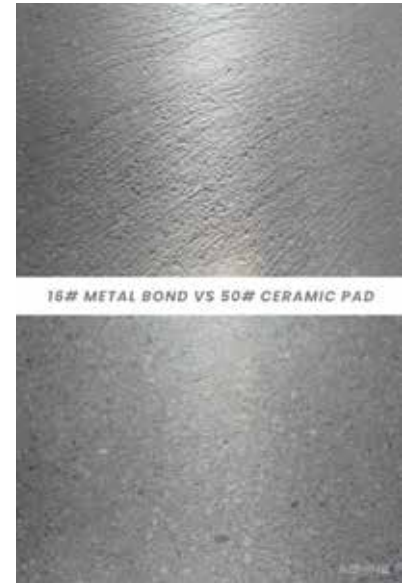
www.ashinediamondtools.com

Italdiamant – an allrounder in diamond tools

Italy based Italdiamant has been manufacturing diamond tools for concrete and stone cutting applications since 1976. The company exports over 80% of its output worldwide through a network of branches and sales offices in Europe, the USA, Asia and the

Middle East. The manufacturer's 'Fighter SP' range of diamond blades is suitable for cutting a wide variety of construction and stone materials including reinforced concrete, Poroton, fired bricks, granite, clinker etc. The blades come equipped with laser welded 9/10mm segments for a longer service life. The 'Turbo Speed' series feature 2.6mm thick segments for high speed sawing. Diamond tools for cutting such materials as ceramics, porcelaingres and clinker also account for a sizeable share of Italdiamant's turnover.

www.italdiamant.com



WORX+ features 'Specialty' range

Ten years ago, Australia based surface preparation specialist WORX+ launched a resin polishing pad called Specialty for walk behind machines. According to the company, it quickly became its biggest selling product. The Specialty is known for its ability to run at faster speeds, handle densifier, remove scratches extremely well, and bring out clarity in floors. Following up on its success, the Australian manufacturer has now released the brand new 'Specialty Pro' range. Its key features include a higher perimeter of diamond segments and bigger shape to in-

crease surface performance, large intra segment grooves to enable highly efficient material evacuation and reduced space between resin pads for improved scratch patterns. The company recommends that the Specialty Pro is paired with WORX+'s new 'Rip Change Pro' - a rigid Velcro backer with very little flex to help achieve a more precise finish. Another highlight of the Specialty and Specialty Pro pads are their dust and densifier evacuation channels and a very large segment surface area. The Specialty range is very rigid, so it cuts flat helping to achieve that precise finish many contractors chase. For those who don't want

to cut very flat floors, the standard Specialty resins (not Pros) can be adapted to follow flooring contours by simply snapping them at each segment for more flexibility.

www.totallyworks.com

Husqvarna expands core bit and wall saw blade portfolios

Husqvarna Group, a Sweden based trendsetter in concrete sawing and drilling technologies, has added the new D 1600 series of core bits for rig based jobs to its drilling range. The D 1600 series is available in three models - the D 1610, the D 1620 and the D 1640 - which are compatible with a wide range of drill motors. The D 1610 model is particularly suitable for the 'DM 1 Pace' motor, allowing optimal use of its battery power. Also new from Husqvarna is the 'Elite-Cut' range of wall saw blades. The Elite-Cut W 1610 blade has been developed for wall saws with low motor output such as Husqvarna's WS 220 HF. The Elite-Cut W 1620 is for mid-range saws and has been designed for sawing concrete with granite, quartz and limestone aggregates. The Elite-Cut W 1630 blade is optimised for high power saws, for example, Husqvarna's WS 482 HF model.

www.husqvarnagroup.com



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Diamond Products new CP38 adds to 'Core Power'

Headquartered in Elyria, Ohio, USA, Diamond Products is said by the company to be one of the world's leading diamond tool and equipment manufacturers. It is dedicated to developing cutting edge solutions that empower construction professionals to achieve extraordinary results. With a strong commitment to innovation, quality, and customer satisfaction, it strives to set new standards and push the boundaries of what's possible in the construction equipment market. The new CP38 hydraulic power unit is said by the company to represent the culmination of Diamond Products' commitment to engineering excellence and customer driven innovation. This power unit has been meticulously crafted to meet the rigorous demands of the construction industry, catering to various hydraulic equipment, including wall saws, wire saws, hand saws, and hydraulic core drilling machines.

Key features of the CP38

The CP38 has been designed to be of robust construction and intelligent design to ensure optimal performance even in challenging construction environments. Equipped with the latest safety features and built to last, the CP38 aims to deliver reliable and uninterrupted operation, reducing downtime and enhancing productivity on construction sites. The CP38 has been developed to boast a high power output, enabling seamless operation of various hydraulic tools, making it ideal for heavy duty construction tasks. The CP38 has a Kohler electronic fuel injected gas engine that pumps 0-72l/m whilst the fully adjustable flow control and hose quick disconnect make it easy to change tools. The CP38 power unit is part of the Core Power line of drilling products and is one of many hydraulic and electric options that Diamond Products offers.



Zero CO₂ emissions with new 'K1 Pace Rail' power cutter

Husqvarna has introduced a new battery power cutter for rail cutting. As well as offering a series of enabling features designed to optimise performance, the K1 Pace Rail has been designed to deliver zero CO₂ emissions during use.

The K1 Pace Rail is specially designed for work on railways, tram tracks and metro systems. Mattias Holmdahl, Husqvarna's senior manager, Global Product & Service Management, explains it has the characteristics required to make a vital contribution to projects in these areas: "Cutting a rail track requires power, precision and speed. The K1 Pace Rail delivers all this and more by combining efficiency and a powerful motor with new advances in technology. What also sets it apart is the fact it offers the freedom of battery power. This means zero CO₂ emissions during use, which can contribute to a cleaner, more pleasant working environment. Another potential benefit of the machine's emissions profile is the fact it can also help private contractors and municipalities fulfil environmental demands on projects where these exist."

The K1 Pace Rail has been designed with safety in

mind, with the machine's 'X-Halt' brake function being able to stop blade rotation in fractions of a second, increasing ease of use. In addition, the power to weight ratio has been designed to provide optimal balance, allowing the operator to cut more efficiently, enjoy greater control and work with less strain on the body.

Mattias Holmdahl continues: "With the new K1 Pace Rail, the benefits of battery power are there to be seen and enjoyed. Users also enjoy versatility thanks to the RA 11 attachment which is supplied as standard. As well as allowing cutting from both sides of the track, the attachment also delivers perfect right angled cuts when fastened to the track. We believe that the combination of this kind of smart technological solution and the liberating potential of a battery powered cutter make K1 Pace Rail an extremely attractive option in its segment."

Designed so that professional drillers will feel the difference

Husqvarna has introduced drills and accessories for consistent and smooth drilling. The D1600 series of drill bits – tailored for the highest demands of drill stand drilling - is said by the company to power through jobs with the new series bringing together the best features and advantages from Husqvarna's previous drilling technologies. The D1600 series is available in three models – D1610, D1620 and D1640 – offering performance across a diverse range of applications, carefully designed to work with a wide range of drill motors.

The D1610 is specifically designed for the DM 1 'Pace' drill motor. The shape of the contact surface ensures a smooth and quick start and has self-centring capabilities, whilst the reduced active surface allows high drilling speed with minimal working pressure. Minimal friction and vibrations result in a fast and smooth cut. The innovative design is said to ensure easy core removal, eliminating any unnecessary complications during the drilling process. Furthermore the drill bits have been adapted to equipment with low, intermediate and high power motors.

Other variants include the D1620 which is designed to deliver high performance in a very wide window of applications, covering hard, medium hard and softer concrete and said to deliver very fast and smooth drilling speeds through rebars. Finally the D1640 has a robust and reliable design, developed for slightly tougher applications in terms of both machine power and material to drill, such as abrasive concrete and concrete foundations.





Floor saw with automatic feed system

Lissmac's new Multicut 590 is designed to be a powerful floor saw for the toughest operating conditions. Its EU Stage V/US EPA Tier 4 Final certified Perkins 36kW turbo diesel engine is said to drive saw blades up to 1,200mm in size and achieve cutting depths of up to 520mm. The compact machine has a hydraulically assisted steering wheel, which enables very precise and comfortable work with minimal steering forces. An optional running board can be fitted for travelling long distances.

Maximum efficiency

The 590 comes with Lissmac's 'Power Control System' (PCS) which has been developed to get the maximum power out of the machine without overloading it. The service life of the diamond tool is said to increase significantly due to the constant load. PCS also assists the operator of the floor saw by automatically regulating the feed rate during the cutting process. By temporarily throttling the feed speed when the preset pressure range is exceeded, the machine adapts to the

prevailing conditions and thus continuously generates the best cutting performance. "PCS is only available from Lissmac. We convert 100% motor power into 100% cutting performance. This 100% efficiency without break and error can only be achieved by the automatic system," says product manager Roland Gaile.

The frame of the machine is designed for a long operating life whilst the high performance electric drive with integrated parking brake is designed for precision feed. The two speed gearbox has been designed to ensure the ideal operating point when cutting and moving. In addition, the machine can be moved and set up without the diesel engine running. The saw blade drive can be selected between neutral, synchronous, or counter rotation. A four speed gearbox sets the saw blade speed to 950, 1,400, 2,100 and 2,600rpm.

Alternatively, three different saw blade shaft kits, each with one speed, are available and can be converted at any time. A change between left/right cutting is possible.

Milestone in floor cutting

The Multicut 590 is equipped with a modern control panel to clearly control all functions and displays important operating data. The desired cutting depth can also be preset via the display, the cutting depth display is digital. For a long service life, the machines are equipped with an electric saw blade lift by means of solid, torsion resistant spindles or scissor principle, as well as a precise feed control by potentiometer. "Lissmac stands for innovation and proves it again with a bang. The Power Control System in the Multicut 590 marks a turning point in floor cutting. Without automatic control, the gains in cutting performance, comfort and tool life would be unthinkable. We combine the advantages of digitalisation with solid mechanical engineering and user experience. That makes us strong and brings our customers forward," says Gaile.

Flexible 600 floor saw from Husqvarna

The FS 600 E is a versatile electric small push floor saw for left and right hand indoor sawing. It has been designed for an optimised weight and balance to ensure ergonomic working position and zero CO2 emissions during use. The built in water tank enables cutting without an external water supply and is suitable for small sized service and repair jobs and for a majority of floor sawing applications. The electric motor enables cutting in environments where CO2 emissions are not allowed. Left and right hand lade mounting enables cutting into

other obstructions and eliminates the need for hand cutting. It has automatic start, phase error detection and phase shift plug for ease of use. It has an easily accessible blade shaft for daily greasing and a patented gas assisted raise/lower system that reduces the force required to raise in and out of the cut. It is CE certified and IE3 compliant to comply with health, safety and environmental regulations. It has a cutting depth to a maximum of 240mm, a motor output power of 7.5kW and a blade diameter of 600mm maximum. It has rated power of



8.8kW, maximum water pressure of 6bar, a nominal weight (uncrated) of 178kg, a maximum operating weight without water tank of 183kg and a maximum operating weight with full water tank of 214kg.



INTRODUCTION TO WET DIAMOND CORE DRILLING BY AGP

Wet diamond core drilling is the fastest and most economical way to drill precise cylindrical openings in reinforced concrete. Drilling reinforced concrete is challenging because of the hardness of the concrete material on the one hand, and the difficulty of cutting the steel reinforcing bars which are embedded in it. The cutting tools best used are diamond segment tipped core bits, since they perform best on hard concrete, but the steel rebar is difficult to cut with diamond segments. It takes a powerful motor to drive the core bits and they need to deliver the correct speed and the required torque to do the job. AGP's line of wet diamond core drilling machines are designed to satisfy all of these requirements.

Applications

Diamond core drilling is useful for a wide range of applications, from creating openings for pipes, conduit, or ducts, to stitch drilling of massive openings. The technique can also be used for taking core samples. In doing this there is no substitute for an operator who understands the machine and the principles of how to operate it at its peak potential. The operator must also understand workpiece and field conditions.

How to choose a diamond coring motor

The key point of choosing a coring motor must be based on the sizes of holes needed to be drilled. Since a larger hole requires each diamond segment to travel further with each revolution, the larger the bit, the slower the rotation speed must be. Any given motor will have an

optimum diameter range for each of its gear ratios. Most diamond coring motors have multiple gears to cover a broader range of sizes. The gear ratios are the first criteria, and the motor power is the second. A motor with less power, even if the RPM is correct, will tend to work less efficiently and the bits will go dull easily. Wet diamond coring is one of the most stressful applications for an electric motor, with motors being worked to their limits most of the time. It is thus essential to choose a motor of high quality and optimised design such as the AGP diamond core drilling line.

Types of bits

Broadly speaking there are two main types of bits, wet and dry. Dry bits are usually used for softer materials like brick, while wet bits are used for hard concrete and reinforced concrete. The diamond segments of the bit also vary in their composition to apply to different work materials. The aggregate in the concrete affects the hardness of the material and it varies by region. The bond which holds the diamonds in the segment needs to be of a certain hardness to keep the segments sharp. In other words, as the segment wears away, new diamonds are exposed. If it wears too slowly, the segment will polish smooth. If it wears too quickly, the segments will be wasted unnecessarily. It's a bit counterintuitive, but the harder the material, the softer the bond in the diamond segments needs to be and the softer the material, the harder the bond should be. Choosing the correct type of diamond segment will allow drilling to be more economical.

Drill stands

Although some coring motors can be used hand held, this should be limited to diameters below about 80mm for safety reasons. Anything larger than 80mm certainly requires a drill stand. The key characteristic of a drill stand is its stability. It needs to hold the motor steadily as it plunges into the workpiece. Excessive vibration and backlash will lead to poor drilling performance, shortened core drill life and possible danger to the operator. AGP produces a complete line of drill stands.

Water feed

Naturally, wet drilling requires a supply of water. The water acts as a coolant to keep the diamond segments cool and also helps to flush away the ground down concrete as it drills, with this also eliminating dust in the air. Water can be taken straight from the tap, or if that is not available on the job site, water can be delivered by a portable pressure tank. In freezing conditions, antifreeze can be added to the water in a pressure tank.

Conclusion

A successful wet drilling operation requires five main elements: a skilled operator, a good quality and powerful motor with the correct speed, a suitable bit which is sharp, a stable, properly fixed drill stand, and sufficient water supply. If any one of these elements is lacking, then the wet drilling operation will not succeed. AGP states that it provides the best equipment possible, but it's still up to the end user to ensure that every element of successful wet drilling is in place.



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celebrates 50th anniversary in January

The World of Concrete tradeshow in Las Vegas is a real long-runner and a valued annual international gathering point for, among other things, industries for concrete drilling, grinding and polishing of concrete surfaces, demolition, remediation and more. In January 2024, the fair celebrates a full 50 years.

2 3-25 January 2024 will again be time for the World of Concrete tradeshow in Las Vegas. This time it is a little special as it will celebrate 50 years. It started in 1974, just 12 years later than the German mega show bauma in Munich. At that time, World of Concrete was a much more local tradeshow, but would quickly become a Pan-American event that also attracted exhibitors and visitors both from the rest of North America and also from South America. Today, World of Concrete is almost as much an international tradeshow as an American one, with exhibitors from all over the world, although the American exhibitors dominate.

Construction machinery fair with a strong focus

For many years, the tradeshow alternated between different American cities such as Orlando, New Orleans and Las Vegas. For the last couple of decades, the show has been held exclusively in Las Vegas. International editions

of the show have also been arranged, for example in various places in Europe such as Copenhagen. Nowadays it is co-organised with other shows such as Intermat in Paris and Expo Cihac in Mexico. There are also World of Concrete editions in China and India, with the latter



being held since 2017. It is mainly the annual edition of the show in Las Vegas that has made itself known all over the world, however. PDi Magazine exhibited for the first time in 2004 and has been a loyal exhibitor ever since. When its American sister magazine PDA was started in 2012, that magazine has also been included in every edition of the show in Las Vegas.

World of Concrete is a classic construction machinery tradeshow with a strong focus on slightly lighter machines for various types of processing, mainly of concrete. At World of Concrete you won't find as many manufacturers of really heavy machinery and tools as you would find at the Las Vegas located ConExpo-Con/Agg. World of Concrete is an annual tradeshow, while ConExpo-Con/Agg is organised every three years in rotation with bauma Munich and Intermat Paris. What makes World of Concrete unique to PDi and PDA Magazine is its strong focus on concrete cutting equipment, light demolition equipment, diamond scrapers,



concrete floor grinding and polishing machines and tools, hazardous concrete dust and slurry handling and collection equipment, cleanup equipment, hydrodemolition and more. Both magazines have long had a close collaboration with the organiser, firstly Hanley Wood, and later Informa.

Back in full force after the pandemic

When the Covid-19 pandemic hit in 2020, World of Concrete just had time to take place. The 2021 show was moved to June with the hope that the pandemic would have calmed down, but the tradeshow was almost the smallest ever with few international visitors. It was then decided to reduce the number of show days down to three, which continues to apply. Since 2022, the tradeshow is on its way back to its former self and it looks very promising with over 1,350 exhibitors booked. At next year's show, the international umbrella organisation IACDS (International Association for Concrete Drillers

& Sawsers) will hold its annual meeting in connection with the tradeshow.

For the international markets for concrete cutting, grinding and polishing of concrete surfaces, handling concrete dust and slurry, light to medium demolition, remediation, hydrodemolition and more, World of Concrete has become one of the most important international trade fairs. Manufacturers from all over the world gather there annually to meet prospective buyers. Few other trade shows can match World of Concrete in reaching precisely the aforementioned categories of manufacturers and end users of the equipment. World of Concrete is also one of the few tradeshow that is organised annually and also manages to maintain its numbers of both exhibitors and visitors. Despite everything, there has been an increase in the number of tradeshow around the world but there are few really large shows that manage to organise annually. PDi Magazine and its American sister magazine PDA will be



exhibiting in the Central Hall at stand number 4244. You are sure of a warm welcome!

www.worldofconcrete.com



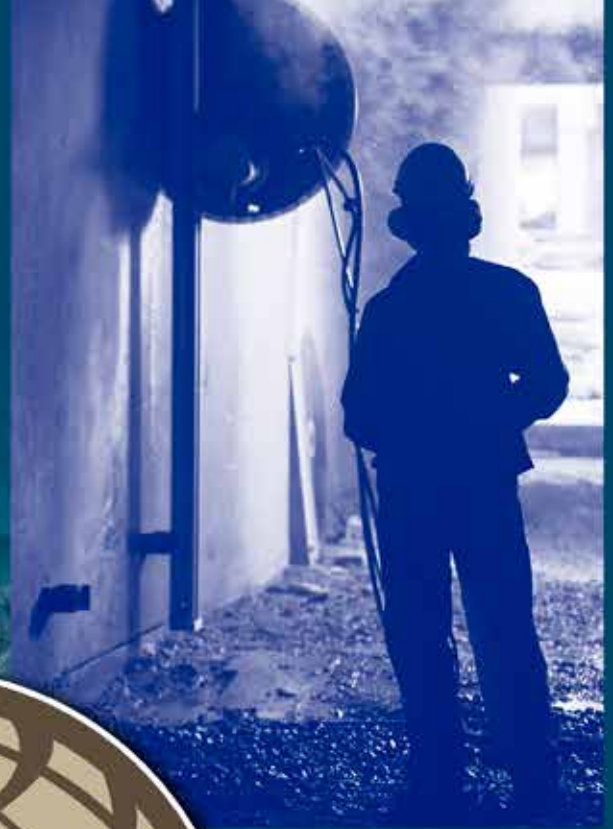
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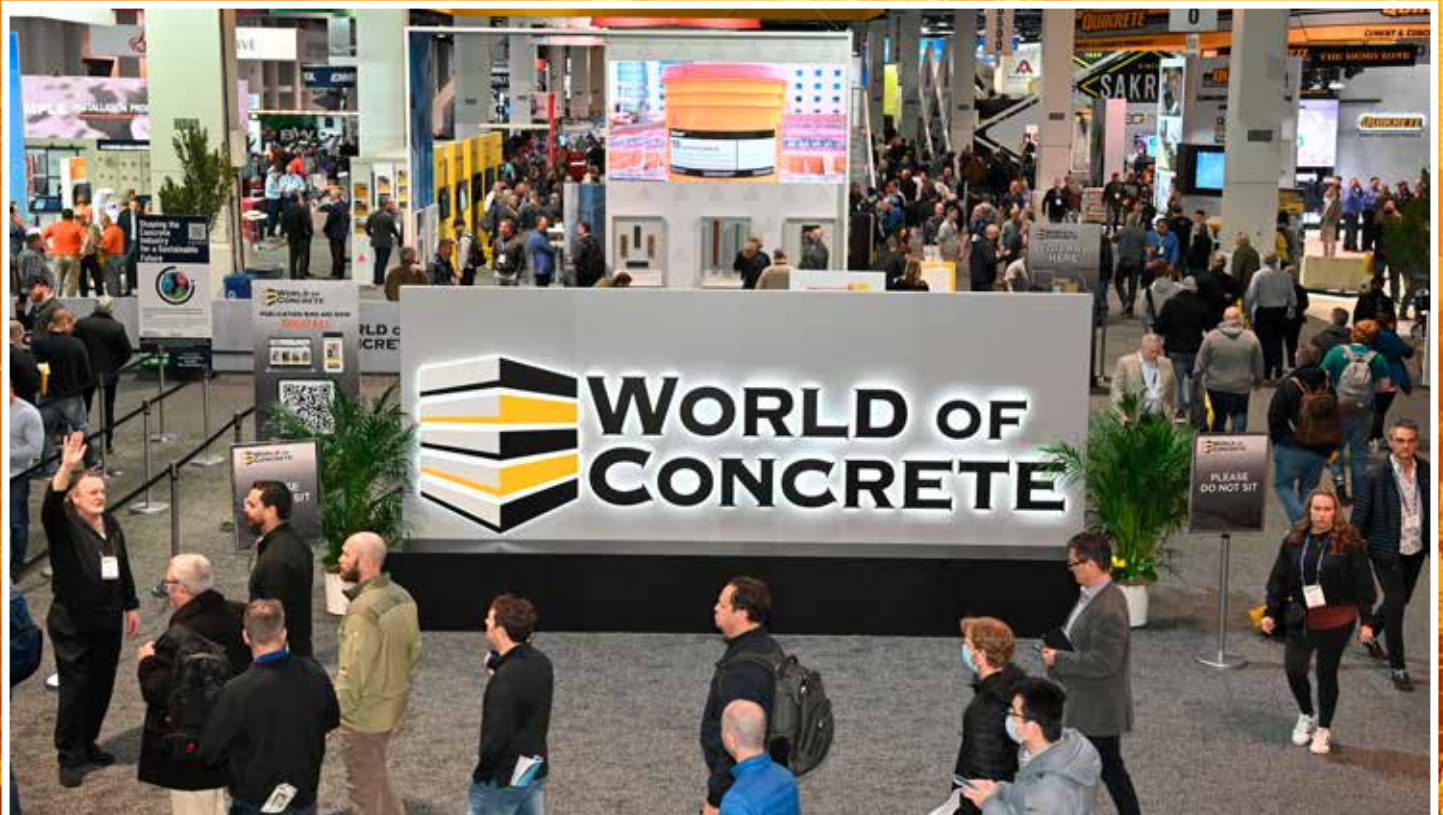
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Ajax Tool Works	S13353	Diamond	S13513	Multiquip	C4804
Allen Blasting and Coating	S13826	Diamond Blade Warehouse	S11627	National Flooring Equipment	S11326
Allen Engineering Corp	C4331	Diamond Products	C4305, O32050, O32157	Norton Clipper	C3415
Alpha Professional Tools	S12955	Diamond Speed Products, Inc.	S12533	PDI Magazine/ Pda Magazine	C4244
Antraquip Corporation	C7021A	Diamond Vantage	C3641, C3641a, C3641	PR DIAMOND PRODUCTS	O31250
Ashine Diamond Tool Co. Ltd.	S11807	DIAPRO	S13154	Pulse-Bac Vacuums	S12550
AUSA	C6677	Digga Attachments & Kanga Loaders	C4529, C4623	RubbleCrusher	C6851
Autec North America	C3028	DISTAR	C3016	Runyon Surface Prep Rental & Supply	O30913, S12343
Aztec Products, Inc	S11808	DITEQ Corporation	C4315, O31961	Samedia Corp.	S13570
B2W Software	N1545	Dustcontrol, Inc.	S12527	SASE	O30761
Bartell Global	S10627	Dymatec USA LLC	O31660	SONMAK DIAMOND TOOLS	C4849
Bell Trucks America, Inc	C7327	Everything Surface Prep dba US Shotblast Parts	S10501	STIHL Inc.	C4631
Beton Trowel BV	C4862	E-Z Drill, Inc.	C3333	Superabrasive, Inc.	O31710, S10507
BlastPro Manufacturing, Inc.	S10801, S11727	Floorguard Products	S13149	Surface Systems and Instruments, Inc	N1351
Bobcat Company	C5347	Fuzhou Bontai Diamond Tools Co. , Ltd	S11519	Syntec Diamond Tools Inc.	S12211
Boren, Inc.	O31728	Genesco Equipment	N3129	Terra Diamond / GDM Equipment	C4519
Bosch	O30303	GSSI	N1353	Terrazzo & Marble Supply Companies	S13146
Brokk	C4005, O32100	Hatz Americas, Inc.	C3355	Texas Pneumatic Tools, Inc.	S13106
Buffalo Turbine	S12510	Hilti, Inc.	O30800	TITAN DIAMOND USA	S13407
Canycom USA, Inc.	C4655	Hongtai Diamond Abrasive Tools	S13432	U.S.SAWS	O31950, S10911
Carhartt Company Gear	N2023	Husqvarna Construction	O31326	Vacuworx	C3327
CAT DIAMOND TOOLS	O31652	Hyundai Everdigm	C6761	Wolff Tools	S13017
Caterpillar, Inc	C6061	ICS Diamond Tools and Equipment	O31668	World Diamond Source Inc	S11107
Concrete Sawing & Drilling Association	C4211	Jetstream of Houston LLP	C3215	Xiamen Bestop Diamond Tools Co. Ltd.	S11616
Conjet	N2212	Komplet North America	C6877	XIAMEN M&R DIAMOND TOOLS.LTD	S11809
CS Unitec Inc	O31720	Liebherr USA, Co.	C6149, N1011	XIAMEN METOOL DIAMOND TOOLS CO.,LTD	S11508
Darda GmbH	C6689	LISSMAC Corporation	C4649	Xingyi & High Tech Polishing	O32030
Develon	C7226	Makinex Construction Products	S12617	Xtreme Engineered Floor Systems	S12946
DEWALT	O30958	Makita	O30040	Xtreme Polishing Systems	S13807
Diamabrush	O31942	MB America	O30327	Youngsun Diatech	C3056





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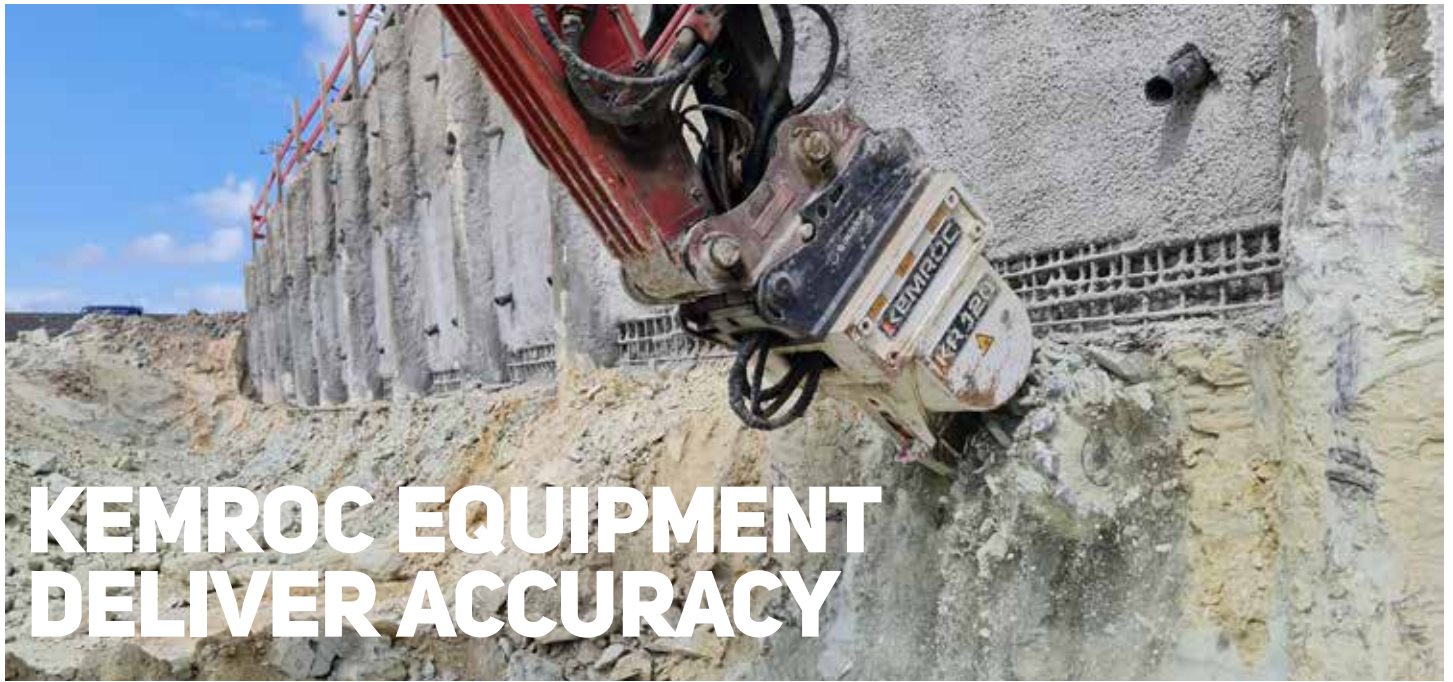
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KEMROC EQUIPMENT DELIVER ACCURACY

The Königsteiner Höfe is a new residential and commercial quarter being constructed in the middle of Königstein im Taunus in the German state of Hesse. Acting as a subcontractor to the Köster Group, the company Höfling Erdbau was engaged to complete the site preparation work. Using two excavators with cutter attachments from Kemroc, the contractor put all the bored pile walls in place and put in the drainage systems efficiently with the required accuracy.

Königsteiner Höfe is the location of an innovative residential and commercial quarter which is being built in the middle of the Hessian town of Königstein. The 9,000m² site offers enough space for a total of eight buildings with around 75 apartments with 7,000m² of living space as well as other facilities. The general contractor Köster and the subcontractor Höfling Erdbau have started the first phase of this ambitious project which has to be completed by June 2024. This phase involves excavating the site and installing all the required ground support.

Bored pile wall

After the ground breaking ceremony at the end of December 2022, the 65,000m³ construction site was first excavated to a depth of 15m on the slope side to a depth of 7m on the valley side, and the shoring was erected as a contiguous bored pile wall. By mid-February 2023, all 186 bored piles surrounding the excavation pit were completed. The piles then had to be anchored and lined by filling the space between each pile with steel mesh and shotcrete. To keep costs down, the shoring wall had to be profiled back beforehand with the surface being as flat as possible.

Achieving the surface finish required would have been impossible in the difficult quartzite ground conditions using an excavator with breaker or ripper. For this reason, Daniel Korn, site manager at the contracting company Gerhard Höfling GmbH, chose a different excavator attachment, namely a rotary drum cutter. After initial trials with a different brand that did not yield the desired results, Enrico Trender, Kemroc's sales manager, recommended the combination of a 25t

excavator and a KR 120 (120kW) rotary drum cutter to complete this task.

Kemroc's 'KR' range comprises of 19 transverse cutters with spur gears. They are designed to be robust and wear resistant and are said to be the ideal attachments for carriers with short booms in confined spaces. This feature is said to be advantageous in demolition and tunnelling as well as in trenching and pipeline work, concrete renovation, quarrying of soft rocks, underwater and profiling work. Daniel Korn from Höfling rented a KR 120 drum cutter for use on the company's own 25t excavator for the profiling work. With this combination, it was possible to mill the ground containing quartzite



Layer by layer, the areas of quartzite rock between the bored piles are exposed.

from between the bored piles with a smooth surface finish and line it with shotcrete.

Drainage trenches all around

Subsequently the contractor had to excavate a drainage trench 50–60cm deep and 50cm wide inside and at the foot of the shored wall for its entire length. After the experience of using milling equipment in these ground conditions, Daniel Korn decided to carry out this work using the combination of a 9t short tail excavator and a Kemroc EK 40 chain cutter (44kW).

The 'EK' range of chain cutters are equipped with what is said to be a unique cutter chain running between the outer cutter drums. This is designed to loosen the material along the entire width of the cutter head without leaving a central spur as would be the case when using a conventional drum cutter without any sideways movement. In this way, it is possible to excavate trenches with a precisely defined width. Kemroc states that this operating characteristic saves time and up to 40% energy, is gentle on excavators and produces fine grained milled material that can often be used immediately as backfill.

On the Königsteiner Höfe construction site, however, the milled material was transported away for recycling. Backfill was not required because the sloping drainage trench was to be lined with a fleece material and filled with special drainage gravel so that when it rained, the water collected would flow down to the pump shafts. In retrospect, site manager Daniel Korn considered that completing the work with the equipment rented as a complete success: "In view of the difficult soil conditions with the presence of quartzite prevailing on our construction site, the choice of equipment was almost perfect for this task."



DUST EXTRACTION, WET VACS AND AIR CLEANERS 2023

This year has seen three manufacturers launch new products all designed to keep air on demolition sites safe to breathe. Husqvarna has introduced a new model to its 'Pace' battery range, V. Brøndum has launched a four motor vacuum cleaner, and Scanmaskin has added three new developments to its 'World Series'.

Husqvarna adds dust extractor to its Pace battery system

Husqvarna Construction has now added the dust extractor DE 120 H Pace to its 94V Pace battery system. This 'H' class development has a compact and mobile design, developed for long working intervals. The Pace battery system supports a range of heavy duty machines that provides the operator with 94v of power which can be applied to jobs at sites where previously only combustion powered alternatives have been an option. According to Husqvarna, the development can provide operators with the mobility of cordless equipment and covers a range of applications. These include working in remote places with no access to the electrical grid, urban areas where noise level or emissions are an issue, or in tunnels and trenches where emissions can cause problems for the operator. "As a trusted partner to our



customers, we want to support them in getting the most demanding jobs done, even in remote, off grid locations,” says Joe Taylor, vice president product and service management at Husqvarna Construction. “With the Pace battery system, we have a powerful range of machines as a strong alternative for operators who prefer all the benefits that a battery product can offer but need high power for heavy duty applications.”

New ‘Ronda’ 4000H ‘QC’ class ‘H’ vacuum cleaner with four motors

A new member has been added to the Ronda range of industrial vacuum cleaners, the Ronda 4000H QC (short for ‘Quad Core’). This new vacuum cleaner is constructed with the same frame and filter system as the Ronda 2800H, but with a new motor top. It is suited for collecting large volumes of fine and hazardous dust,

or act as a dust extractor on, for example, floor grinders or other cutting or grinding machines that usually produce large volumes of fine dust. As standard it is equipped with Longopac bagging system but can also be delivered with other collection systems such as a metal container or a combination of Longopac and container. A built in acoustic alarm sounds if the air velocity in the hose falls below 20m/s ensuring that the 4000H QC meets the European standard requirements for vacuum cleaners used as dust extractors attached to tools such as floor grinders. According to Ronda’s manufacturer V. Brøndum, the measurement of the air flow (which forms the basis for the acoustic alarm) is offered by most vacuum cleaner manufacturers of H class single motor vacuum cleaners, but only a few manufacturers offer it on multi motor vacuum cleaners, as in the case of the Ronda 4000H QC. The machine is fitted with four suction motors, each of max 900W, and the machine does not exceed the max 3,600W required to operate at 230V (it can also be supplied as 380V). The model is equipped with soft start which protects the motors as well as the building installations. The motors can be started individually, for example in situations where 16A is not available or for less demanding tasks that require only two or three motors.

New dust extractor models from Scanmaskin

Scanmaskin has introduced three dust extractors, namely the 3000, 4000 and 7000 World Series. The 3000 World Series dust extractor is designed for use with Scanmaskin’s single phase floor grinding machines. It has a height of 130cm, a robust frame and large wheels, and comes with a 10m hose and 10m power cable which gives a full 20m range. It is supplied with a cleaning kit containing a 50mm aluminium pipe and a cleaning nozzle of 450mm and suits the grinders ‘Scan Combiflex’ 330 and 450 as well as the Scanmaskin 18. The suctioned air is conveyed and discharged outside at low speed.

The 4000 World Series is specially designed for use with Scanmaskin’s mid-range line of grinding and polishing machines. It is equipped with a ‘PCB’ electronic circuit, which enables automatic start/stop functionality for the motors. It features a sturdy frame and large wheels and is supplied with 10m of hose and a cleaning kit containing a 50mm diameter aluminium pipe, including a cleaning nozzle of 450mm. It also offers the option of connecting a pre-separator and suits the floor grinders Scan Combiflex 330 three phase, Scan Combiflex 450 and Scan Combiflex 500. Both the 3000 and 4000 features an ‘M’ class polyester star filter. The filter is abrasion resistant, and the filter pockets are sealed with glued seams. Both of these models have a clogging monitoring system of filters with an indication of the filter’s status.

The 7000 World Series is intended to be used together with Scanmaskin’s larger floor grinders. This vacuum cleaner features a double stage side channel blower as well as a motor and filter system designed for continuous use. Other features include ‘M’ rated and oversized cartridge filters (‘PTFE’ treated and with nanofibers). It also has a fully automatic and continuous filter cleaning system using reverse pressure from compressor air from the Thomas compressor. As the compressor is oil less, it is said that no maintenance is required. The max pressure is regulated by an overpressure valve. It features a robust construction and large wheels and is built for industrial use. Scanmaskin offers additional accessory kits for general cleaning and a 76mm hose with camlock for connection to the grinding machine. It suits the larger floor grinders such as Scan Combiflex 650 and Scanmaskin 28 World Series.

The 3000, 4000 and 7000 World Series models are all H classed, and are equipped with Longopac as well as Hepa 14 filters, which removes 99.995% of particles as small as 0.18µm. The filters have been ‘DOP’ tested, and the models features a bag in, bag out system developed for the safe replacement of the primary filter and preventing operators from being exposed to dust during maintenance.

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Photo: Jens Jeske

Fachtagung Abbruch 2024

On 22 March 2024, DA Service GmbH is once again organising Fachtagung Abbruch for Deutscher Abbruchverband e.V. (DA) at Station Berlin.

In 2023, over 1,200 participants attended with 117 exhibitors displaying their wares in over 1,060m² of trade show space. This showed that Fachtagung Abbruch is now a major event for European companies involved in demolition and dismantling and has led to high expectations for the 2024 event.

Conference programme

For the first time, the conference programme has a title which is 'Sustainability in demolition'. The conference programme

consists of a panel discussion with experts in the field of sustainability, such as Professor. Dr. Christian Berg and Sybille Mai. In addition, the programme includes 10 further presentations by experts on sustainable topics in demolition, each followed by a discussion, so that the attendees are more closely involved. This year, for example, there will be a presentation on 'Urban mining in perfection', as well as one on 'Demolition material as an economic CO₂ sink' and 'Selected examples of building demolition'. The conference will be moderated by TV journalist Kristina zur Mühlen.

Industry exhibition and Dialogue evening

More than 85 exhibitors have already registered with over 950m² of net exhibition space already being registered for the industry exhibition covering a wide range of products. The current list of exhibitors can be viewed next to the article. For an updated list please check the event website. Registration as an exhibitor is still possible until 5 January 2024. The dialogue evening will traditionally also take place at Station Berlin, with the exhibition remaining open in parallel. This aims to improve the exchange of information providing opportunities for both attendees and exhibitors, as well as enabling a variety of networking opportunities throughout the evening.

Sponsors

The fact that the Fachtagung Abbruch is so well established is demonstrated by the large number of sponsors that have already signed up. The DA would like to express its sincere thanks to its supporters. Some 'Silver' sponsorship packages and large advertising banners are still available for purchase.

Programme and registration

You can view the programme of Fachtagung Abbruch 2024 on the event website: www.fachtagung-abbruch.de/en. There can also be found further information and details about the event. Interested parties may also register their attendance under the category 'Attendees', which is possible until 1 March 2024.

www.deutscher-abbruchverband.de

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MDU3 IN THE FIELD — WHAT'S THE IMPRESSION?

Pentrunder's new MDU3 field tested by the pro Andreas Trönberg.

In 2002 Patrik Håkansson founded Göteborgs Hålmetod, and in 2016 Andreas Trönberg joined the company. Andreas is well known in the concrete cutting business, both in Sweden and globally (many readers have probably seen his Facebook posts in CCNA and other groups about different jobs he has done). Andreas started working in the concrete cutting industry when he was only 15, as school wasn't really his thing, but figuring out new solutions and solving problems soon became a passion.

"I loved the fact that no project was the same and I realised soon that even if it's hard work, you need to do it with some finesse to be both effective and develop your skills. Let's just say I spent my fair share of hours learning from others and the experiences they've shared, both online and out on the field. Now, after almost 20 years, I have reached the point where I'm the one sharing my experiences in hope that others might also learn from the jobs I've done," Andreas Trönberg explains.

Pentrunder stands out

Over the years, Göteborgs Hålmetod has taken on a lot of high precision cutting and drilling projects and this has become one of its strengths. The company uses several brands of gear in the workshop, from smaller to bigger machines, but the way it has made good use of the Pentrunder Core drills stands out. The Pentrunder MD1 heavy duty core drill, both with hydraulic and electric feed is the company's go to machine for bigger and tougher jobs, and the 'NTGRA MDU' is the first option when many holes have to be drilled fast. Now, there will soon be a new Pentrunder core drill on the market (introduction date planned for middle of 2024), so who could be better suited to test the new MDU3 in the field?

We met up on a cold and snowy morning in November, outside the Swedish city of Borlänge where all the Pentrunder machines are designed, produced, and assembled. The test location was an old hydro power plant which is being renovated; here the concrete is old and full of aggregate. "When I got the question if I were interested in coming up to Borlänge for a bit of testing of the MDU3 and a photoshoot, the answer was pretty easy. I absolutely love the old MDU NTGRA and there

is no other machine that has ever been able to compete with it according to me. To get the chance to test the new Pentrunder MDU3 and see what it's capable of was like asking a kid if he wants to meet Santa at Christmas. The Pentrunder team informed me that the auto feed, and software still need some adjustment, and that the carriage has some design changes waiting; I'm guessing it was all to dampen my hopes and expectations. But let's just say it cuts like a warm knife through butter," explains Andreas.

The new MDU3 means three different machines

When talking about the MDU3, we are really talking about three different machines within the new Pentrunder 'HFi' core drill generation. The MDU3-30 is for core bits up to 300mm with a rpm range from 200 to 1800 and 60Nm; MDU3-60 is for core bits up to 600mm with a rpm range from 100 to 900 and 120Nm; and the MDU3-100 is for core bits up to 1,000mm with a rpm range from 50 to 450 and 240Nm. "We know that the previous MDU NTGRA was very well liked among our Pentrunder users. However, we had quality issues with parts from one of our key suppliers of motor drives and therefore that machine couldn't live up to our quality standards and we had to stop selling it," says Elin Skantz at Pentrunder.

"Since sales stopped of the MDU NTGRA there has been a high demand from our customers to replace it, and we have been working hard for years with the development of the HFi-system with the RS2 wall saw

being the first machine in the new platform. We knew from the beginning of the MDU3 project what sort of machine we wanted to develop, and after a close collaboration between our designers and engineers we are now able to launch three MDU3 core drilling machines at once," Elin continues.

The drill rig for the MDU3 is based on the same tracks as for the Pentrunder wall saws, and together with the BTS-4 base plate, it is a very sturdy yet easy to mount system. The 'TS' track system also offers a wide variation of core drilling accessories for stitch or line drilling, a pivoting head, angle feet and much more. "My impressions from the MDU3 field test are that it behaves a lot like the older hydraulic core drills but of course supported with all the modern technology and with the power of a proper 'HF' motor. It reacts instantly on whatever the drill encounters in the concrete, yet the reactions are very soft. I love the new display that shows the cutting performance, depth, and how much power the motor is using, which means that in the future I can choose the best suitable segments for the drill bit on tougher jobs," says Andreas.

'This is it!'

During the test in Borlänge, drilling was undertaken both manually and with the auto feed, as well as with small and larger drill bits. "It was the first time I tried the auto feed and even if they warned me that the software could be a bit rough for the moment, it's already better than on any other machine out on the market. You can set the desired cutting depth, turn on the water, press play and then just sit back and watch the MDU3 do the work. And when it has reached the set depth, it stops and starts pulling out. These new features together with the fact that you can use the same tracks for drilling and wall sawing, and the range or different drilling accessories, is a dream combination. This will be 'the machine', the core drill you need no matter what sort of job you are up against. Trust me! It won't matter if it's a normal 100mm hole, hundreds of holes being drilled in a line, or a big 1,000mm hole. Just rig it up and trust the machine. The need for other core drills will disappear with this machine," Andreas Trönberg concludes.

www.pentrunder.com



Effective dust control as Normans AB uses the Dynaset 'HPW-Dust'

Normans AB, a prominent Swedish demolition company, undertook a significant demolition project in the historical city of Uppsala requiring exceptional dust control measures. Dynaset's dealer Amas Svenska AB, provided a Dynaset HPW-Dust high pressure dust suppression system to resolve the issue.

As urban landscapes continually evolve, demolition activities have become a common sight in cities worldwide. Yet, the environmental and health impacts associated with these operations require an effective dust control solution. This was the case for Normans AB with a huge demolition project in Uppsala. Here the company utilised Dynaset's HPW-Dust high pressure dust suppression system provided by Dynaset's dealer Amas Svenska AB. The project showcases the vital role of technologically advanced solutions in maintaining an environmentally friendly and safe demolition environment for the workers and the nearby residents alike.

The challenge: dust control in demolition

Normans AB, a prominent Swedish demolition company, undertook a significant demolition project in the historical city of Uppsala. The project posed unique challenges due to Uppsala's dense population, rich history, and close proximity to sensitive ecological zones. These conditions required exceptional dust control measures to protect residents, local fauna, and historical sites from the harmful effects of airborne particles. In demolition operations, dust control is a complex issue. Without effective mitigation dust can pose serious health risks to workers and nearby residents, affect local ecosystems, and damage adjacent properties or historical artifacts. Therefore, effective dust control is not just an environmental or health issue, but also a question of social responsibility and regulatory compliance.

The solution:

Dynaset's dust suppression system

In response to these challenges, Normans AB used Dynaset's HPW-Dust high pressure dust suppression

system from the Dynaset dealer Amas Svenska AB. The system is a high pressure water system designed for its efficacy in dust suppression, with the system creating a fine mist that effectively binds and settles airborne dust particles, thereby drastically reducing the amount of dust that escapes into the environment. The system operates by converting the hydraulic power of a machine into high pressure water for dust suppression. Its design allows for easy integration with various machinery, which made it an attractive choice for Normans.

The choice of Dynaset's HPW-Dust system was influenced by several key factors, among which included efficiency, cost effectiveness, versatility, and environmental impact. On the efficiency front, HPW-Dust's high pressure water mist is said to have proved superior in capturing fine dust particles compared to traditional methods like sprinkler systems. As for cost effectiveness, while the initial investment in the system can be substantial, the long term savings associated with reduced health risks, environmental fines, and equipment maintenance costs

can offset these initial expenditures. Regarding versatility, the system's ability to integrate with a wide range of machines was a significant advantage for Normans AB, providing flexibility in operations. The environmental impact was another crucial consideration. As the water consumption of the HPW-Dust is low, the overall environmental footprint of the system is also generally lower than alternative methods. Its ability to significantly reduce airborne dust contributes to cleaner air and minimise harm to surroundings.

When working with major demolition operations, the importance of effective dust control is vital. The selection of a dust suppression system demonstrates the need to balance various factors such as efficiency, cost, versatility, and environmental impact when considering different options. In the grand scheme of things, it's not just about demolishing structures, but about shaping urban landscapes in a manner that respects the health and well-being of communities and the environment.



Effective dust suppression is a necessity to protect local residents and the ecosystem from harmful dust particles.



KEEP CALM AND RECYCLE

The turbulent times notwithstanding, PDi Magazine continues to deliver breaking news from the demolition and recycling industry. Here Andrei Bushmarin presents a roundup of the latest innovations in the scrap shear sector.

Trevi Benne attachments for a subsea project

This year, Italy based Trevi Benne was faced with a new and exciting challenge to develop shears for a subsea project. Following a feasibility study and bench tests, the company manufactured five new attachments - three 10t 'CS' 100RS shears and two CS 160RS models weighing in at 16t. The CS 160RS were to be used underwater at a depth of 800m, while the CS 100RS shears were intended for cutting pipes on a pedestal above the surface. There were two types of pipes to be disposed of: flexible pipes and a double submerged rigid tube with a diameter of 460mm, which would be cut into 21m sections. Shears that operate in marine environment need a special treatment technique, which is much more complex than conventional manufacturing processes. Coming without a rotation unit, the attachments feature a chromed stem, stainless steel fittings, purpose made seals, handles and rings.

www.trevibenne.it

BPH promotes LaBounty solutions in UK and Ireland

UK based attachment specialist BPH is now a LaBounty dealer in England and Ireland. With 360° rotation, the LaBounty products offer easy operation and precise handling on the most complicated projects. The fully enclosed patented reversible piercing blades reduce wear to the parent material, as well as minimising welding and maintenance. Additionally, the speed valve is designed to shorten cycle times by 30% leading to an

increase in productivity. The forged cylinder rods and a dual guide slide puck system keep the jaw aligned and reduces jamming to maximise performance, longevity and safety. Patented LaBounty reversed, large bore, forged cylinder rods and seal design are designed to give longer seal life and allow higher operation pressure. Thanks to its extensive facilities, BPH is able to refurbish and service the existing LaBounty users' equipment in an efficient manner.

www.bphattachments.com

'Cayman' shears from ZATO

The Italian manufacturer ZATO has been making shears and rail breakers since 1990. The company's flagship scrap shear series, which is called Cayman, ranges from a nimble 650kg model to an impressive 9,500kg one. The range boasts a powerful cylinder featuring a regenerative valve designed to enhance and optimise its performance. Rotation is ensured by a top tier gear motor with an anti-cavitation valve complemented by pressure limit valves to safeguard the motor. To further prioritise customer satisfaction, the Italian manufacturer stocks Cayman attachments along with spare parts for prompt shipment.

www.zato.it

Demarec expands 'DXS' range

The DXS-40 (3,200kg) and DXS-50 (4,500kg) scrap shears, equipped with the 'DemaPower 2.0' technology, from Netherlands based Demarec, are the frontrunners

of the company's 'DXS' line. According to the manufacturer, the shears offer an increase of up to 25% in performance when compared to the previous DXS models. The DXS range has been recently further expanded with the addition of the two new shears: the DXS-80 weighing in at 8.1t and the 9.1t DXS-90. Thanks to the DemaPower 2.0 cylinder technology with four pressure chambers and a double acting speed valve, the DXS scrap shears are designed to have the performance equivalent to that of a shear twice the size. At the moment, the range comprises of six models, fitting 18t-100t excavators. Another two shears - the DXS-30 and DXS-40 - will soon be added to the product portfolio.

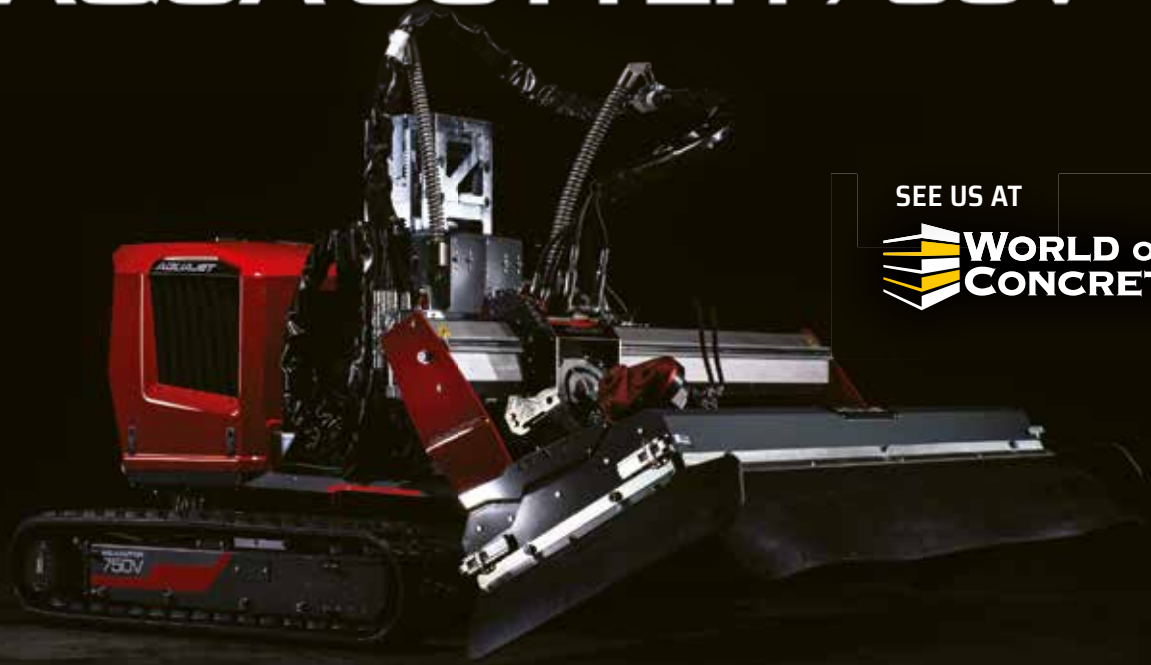
www.demarec.com

Another eagle hatches in Mantovanibenne's nest

The SH320R 'Eagle 3' model from Italy based Mantovanibenne is a powerhouse of a shear that is designed to deliver clean and precise cuts. According to the manufacturer, the combination of the shear and a wheeled excavator allows users to achieve high levels of productivity. Operating with more efficient (+30% cutting force) and shorter equipment reduces consumption and material waste, allowing the use of lighter excavators without compromising performance. By accelerating the recycling process, a quicker return on investment can be achieved, actively contributing to environmental sustainability.

www.mantovanibenne.com

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CLEAN ENERGY VISION

Kohler Energy has announced plans for a new hydrogen 'KDI' engine and its first ever hydrogen fuel cell power system. Building off the recent announcement of Kohler Co. establishing Kohler Energy as an independent company, this development further accelerates Kohler Energy's strategy to provide the broadest range of clean energy and hydrogen ready solutions for off highway equipment and standby and prime power applications for residential and industrial solutions from 20kW to 5MW+.

"This marks an exciting moment in the future of our energy company," says Brian Melka, group president Kohler Energy. "As governments, businesses, and individuals look for ways to reduce their carbon footprint, we're likewise pursuing ways to positively contribute to decarbonisation through new technologies and advanced engineering to develop solutions that utilise clean energy sources. We believe we can provide the broadest array of solutions, especially in hydrogen, given our unique footprint across diverse end markets."

Alongside HVO and e-fuels, Kohler Energy states that it is committed to investing in innovative engine technologies that improve energy efficiency and significantly reduce environmental impact, while still meticulously tailored to the diverse spectrum of machinery requirements. As such, the hydrogen internal combustion engine will be applied to the KDI 2504 TCR, with the ability to provide the same performance and power density as the starting diesel engines but using a carbon neutral solution.

Additionally, Kohler Energy's industrial business will launch its first hydrogen fuel cell power system, a 100kW solid polymer electrolyte membrane fuel cell, using green hydrogen, for emergency backup, peak shaving and demand response. The system is suitable for a broad range of mission critical power users including hospitals, data centres, utilities, ports and water treatment plants. The hydrogen engine was unveiled at the Agritechnica trade show in Hanover, Germany on 13 November. In-field case studies with the hydrogen fuel

cell will begin in early 2024, with more information to be provided in the coming weeks.

For 150 years, Kohler Co. has been involved in design and innovation of such technologies as energy solutions – home energy, industrial power systems, and powertrain – and luxury hospitality experiences and major championship golf. The company also develops solutions to address pressing issues, such as clean water and sanitation, for underserved communities around the world to enhance the quality of life for current and future generations. Kohler Energy aims to be a global leader in energy resilience solutions, bringing bold design and powerful impact to the energy systems that sustain people and communities everywhere around the world. It is an integral part of Kohler Co. and aims to leverage the strength of its portfolio of brands – Power Systems, Home Generators, Kohler Uninterruptible Power, Clarke Energy, Heila Technologies, Curtis Instruments, and Engines.

Husqvarna introduces its new DN 540i core drill

The DM 540i is the latest addition to Husqvarna's 'i-series' battery powered range. It is said to be optimised for handheld drilling between 15mm–75mm and up to 100mm on a drill stand. It has been designed with powerful and lightweight ergonomics for easier handling and a more productive working while placing less physical strain on the user. The specially developed thin walled Husqvarna drill bits are said to provide a better utilisation of the machine's battery power and are available for drilling from 25mm–100mm to a maximum 350mm in depth.

Håkan Pinzani, global product manager, Core Drilling, explains where the drill's physical characteristics are at their most useful: "The new DM 540i can be

used outdoors or indoors and for wet and dry drilling. At the same time, its ergonomic design, low weight and a well-balanced machine body deliver easier, more comfortable operation, making it an ideal choice for drilling in confined spaces or in tight corners or passages. With fewer parts to service, operating costs and downtime are both reduced."

DM 540i is part of Husqvarna's i-Series battery eco system. This means that its' battery can be used on multiple Husqvarna products, delivering versatility and financial benefits. Furthermore, without the need for power from the grid, productivity is optimised; something that is further enhanced by the fact that setup procedures are not required.



Håkan Pinzani concludes: "Ergonomics, user convenience and a versatile battery system are only some of the characteristics that set DM 540i apart from many other machines. Built in connectivity means that location, runtime, and service intervals can be easily monitored and wireless updates received. We believe that all these features represent an attractive harmony of that 'great in the hand' feeling with enabling tech."



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DEVELON WHEEL LOADERS PROVIDE BENEFITS FOR ASH GROUP

Two new Develon DL420CVT-7 wheel loaders purchased by the ASH Group for use at the company's aggregates wash plant in Ellesmere Port in Cheshire in the UK, are said to have brought huge benefits including significant fuel savings and increased safety. The new wheel loaders were supplied by Blue Machinery (Central) Ltd (Blue Central), based in Northwich in Cheshire, the authorised Develon dealer for North West England and North Wales.

Compared to the machines they have replaced, the new wheel loaders are said to be using 4l/h less fuel (11l/h instead of 15l/h). They are the first in the UK to be equipped with Develon's transparent bucket safety system. John Dennon, Director of ASH Group, said: "We are very impressed with the fuel economy and high performance of the new Develon wheel loaders and our drivers really like to work with them. With the new transparent bucket system on the machines, we have also enhanced safety for both the drivers and the rest of the workforce at the wash plant. The new wheel loaders align with our commitment to sustainability and safety and with their help, our wash plant will continue to provide much needed high value recycled sand and aggregates for the UK construction industry. The operation is designed to produce up to 600,000t/year, ensuring maximum resource recovery and to divert even more waste from landfill."

The DL420CVT-7 is also equipped with 'Continuously Variable Transmission' (CVT), which is designed to combine hydraulic technology and mechanical technology to provide smooth and continuous speed variation. It is said to allow the DL420CVT-7 to automatically transition from hydrostatic power at low speed to the mechanical system to operate at higher speeds.

The complete driving range, forwards and in reverse, is controlled by the CVT system. Low engine speeds are said to ensure high efficiency and the highest driving comfort irrespective of the traction speed. The power splitting continuously variable technology facilitates moving off softly and hydraulically. Furthermore, with the CVT, Develon states that a fuel saving of up to 25% can be achieved.

The ASH Group has operated for over 35 years in waste management, incorporating recycling and energy production whilst continuing to divert waste from landfill. The core ethos of the business is founded on the three 'Rs' principle - recover, recycle, reuse. This has enabled the company to produce an environmentally friendly high quality aggregate. ASH Aggregates offers a sustainable alternative to virgin quarried materials that helps to improve the carbon footprint of customers' contracts whilst helping to shape and define their social corporate responsibility targets.



Keestrack I4e reversible horizontal impact crusher

The Keestrack I4e reversible horizontal impact crusher has been designed and introduced by the company to help sustainably recycle or produce the highest quality end products at the lowest costs.

To reduce CO2 emissions, Keestrack has striven to optimise machine efficiency through combining higher output with less wear and electric driven equipment. The company says that with the I4e it is possible to undertake secondary and tertiary crushing at a much lower energy consumption due to the drive system and design. The I4e crusher has a flexible electric drive system which can be connected directly to the mains, or it can be powered by a drop off diesel/genset unit. When connected to the grid, CO2 emissions depend on the power source. Due to the electric drives of the crusher (160kW), the feed and conveyor belts and the system hydraulics, the crusher has been designed to deliver a very cost efficient and emission free operation.

Keestrack states that thanks to its RIC technology, the I4e can be used flexibly in the secondary and tertiary crushing of rock, natural stone, oversized gravel and the recycling of construction and demolition waste, including asphalt and concrete, thanks to the built in metal detector. This means that the I4e has been designed to do the work of two machines in one. The rotor speed of the crusher can be adjusted to influence the degree of the fine fraction, with the system being designed to provide less wear, a better end-product quality (granular shape) and deliver significant energy savings in typical applications such as sand production.

Material enters the feed hopper with the heavy duty apron feeder evenly feeding the machine without loss of fine material. The reversible loading conveyor, which has an integrated metal detector, feeds the crushing chamber. When metal is detected, the conveyor belt reverses and a drum magnet separates the metal. The loading belt feeds the crusher from above, the material falls into the rotor and is broken by the specific shape of the crusher housing. Because the impact crusher runs in both directions, the blow bars are said to last longer and wear to an optimal shape. The blow bars wear in a such a way that when it turns in the opposite direction the blow bar has an optimal shape again.

The closed circuit has been designed to ensure production of a 100% end-product of a very high quality and is said to meet all European standards. The crushing house of the I4e is easily accessible as the side wall of the crushing chamber can be opened. The blow bars can be replaced safely as a lifting device is provided for this purpose. The I4e is also equipped with walkways and maintenance platforms.



New TANA 440ET electric shredder

The newest addition to the TANA Shark shredder series, the TANA 440ET, uses electricity as its power source. It has been designed to combine the benefits of cheap energy, long service intervals and near emissions free operations.

“Electrification makes it possible to reduce local emissions from waste processing to a minimum. This supports the goals of our customers working at the heart of the circular economy and makes the pre-processing of recycled raw materials and recycled materials even cleaner,” says Eetu Tuovinen, product manager for TANA shredders. The 440ET is based on proven technology that has been tested extensively in real conditions. The design of the new shredder is based on the TANA Shark series and is designed by the company to offer durability, versatility and mobility.

The development of the new shredder model was driven by feedback from customers. “Our customers have shown strong interest and a need for an electrically powered and mobile shredder. The TANA Shark 440ET is the first shredder model on the market that combines mobility and electric drive,” Tuovinen explains. Sales to customers began at the end of 2023, and the first units will be delivered to customers at the beginning of 2024.

Reliable energy and long service intervals

The 440ET has been designed for use in high volume production facilities, where industrial grade 1000A and 400/480V three phase electrical connections are available. “Electrification makes the shredder’s operating costs more affordable than before thanks to longer

service intervals. Compared to diesel models, the service interval is twice as long, meaning that every other service is omitted. The spare parts used in maintenance are also cheaper because electric motors are practically maintenance free, whereas diesel engines require regular oil and filter changes, for example,” says Tuovinen.

In recent years, the importance of the circular economy and locally produced recycled materials has also grown in terms of security of supply. A power unit based on diversified and decentralised electricity production supports not only environmental goals, but also the security of supply and predictability of operating costs for customers. Furthermore, the more the electricity production capacity increases, the more affordable the power source is. “Roughly estimated, even at current prices, the operating cost of an electric shredder per hour is just half the fuel costs of a diesel shredder,” adds Tuovinen.

The new shredder utilises combined hydraulics and electricity technology, as the electrified power unit powers the traditional hydraulics that then rotate the shredder rotor knives. “The new model shreds all the same materials as previous models. Our familiar and safe TANA technology has simply been updated into a new version,” says Tuovinen. Although the shredding itself is powered from the electricity mains, diesel technology

has not been completely abandoned. The new electric shredder is equipped with a small diesel engine that allows the machine to be driven independently from one processing point to another at the production plant or terminal.

“It is specifically the mobility of the shredder that is important for our customers’ work. Many customers have several different fractions of waste to process in different parts of the yard, and even when the pile of one type of waste grows, it is important to be able to move the machine. The auxiliary diesel engine makes this effortless,” states Tuovinen. With the auxiliary engine, the shredder can also be driven to the maintenance facilities at the customer’s own yard or onto a lowbed trailer for transportation.

Electric shredder enables success in public procurements

TANA believes that electrification is a hot topic in the industry right now as the green transition is a global trend. It is also starting to be seen more and more strongly in how the companies that feed the circular economy themselves operate. However, the desire to operate cleanly requires equipment that supports this, Tuovinen points out, “At the moment, especially in Finland and Europe, we see a strong trend in the electrification of process equipment, and the TANA 440ET fits that idea exceptionally well.”

Among sustainable companies, managing their own environmental footprint has already changed from a pioneering attitude to a basic everyday activity. Tuovinen sees that already in the near future more and more companies will have to replace old technology with electrically powered process equipment in order to achieve their environmental and carbon neutrality goals. “The industry is already well regulated in Europe, and often public funding is also involved in operations. The regulation of tenders will probably only get tighter, so the local emissions of companies involved in the service chain will also be looked at with a closer eye than before,” Tuovinen concludes.

New wall saw blade from Husqvarna

Husqvarna is now introducing a new series of wall saw blades for those seeking high performance and reliable wall sawing, the new generation W1600 series. This comprises of a range of models with a wide range of uses, but it is now much simpler for the user to choose a product suited to their requirements. A combination of short segments evenly distributed around the circumference of the saw blade and the use of innovative technology is designed to provide a precise and controlled distribution of diamonds for the smooth and controlled cutting throughout the life of the blade. The blade is designed to be suitable for different types of wall saws and has

been adapted for wall saws with low, intermediate and high power motors. Husqvarna states that through their unique technology, the blades can be used for sawing different materials, such as natural stone, various qualities of concrete and rebar.

The new W1600 series includes the ‘Elite-Cut’ W1610 which has been developed for wall saws with low motor output, such as WS 220 HF and similar. For those seeking fast cutting, it can also be used in moderately powered saws such as WS 482. The Elite-Cut W1620 is designed to be suitable for saws with moderate power, such as WS 440 HF, and is designed to provide excellent



sawing in concrete with granite, quartz and limestone ballast. Finally, the Elite-Cut W1630 has been optimised for intermediate and high powered saws, such as WS 482HF. It has been developed for sawing in hard and reinforced concrete, etc and is also suitable for high powered saws from other manufacturers.

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MECALAC CONTINUES EXPANSION OF 100% ELECTRIC POWER RANGE

To meet the demand for more environmentally friendly construction projects, Mecalac says that it has harnessed its spirit of innovation and developed a range of 100% electric machines. It is in this context that the company launched the very first 11t electric excavator, the e12 excavator loader, in 2022.

To complement its offering, now sees the release of the new 1,000l electric swing loader, the eS1000, which has been designed to be the ultimate expression of Mecalac's commitment to sustainability.

Productivity in the service of the environment

Based on the diesel powered AS1000, the eS1000 has been designed not to emit polluting gases during its use. For end users and local residents' comfort, noise and vibration disturbances have also been drastically reduced, making it possible to use the machine both indoors and in sensitive environments. The swing loader architecture has been designed for economy of movement. This translates into reduced cycle times, noise and visual nuisance, maintenance costs and risks of accidents, as well as a lower impact on the environment. While diesel versions of the swing loader limit fuel consumption through this economy of motion, the electric eS1000 loader version has been designed to only consume the right amount of energy during operations. This is said to optimise battery use for eight hours.

In terms of stability, whatever is lifted by the bucket at the front, once the rear axle is locked, the machine has been designed so that it can be turned through 180° without any loss of steadiness, even with the wheels fully steered.

Thanks to this, in all positions and on all terrains, the machine is designed to drastically transform the logistics of construction sites, while reliably and securely overcoming any obstacle with ease.

Mecalac states that urban construction sites and places with limited space and time to work are the natural environment for compact wheel loaders. Efficiency is determined by loading and unloading cycles and affected by time consuming manoeuvres. The company believes that its innovative swing loader concept is born from the desire to reduce these manoeuvres by swinging the boom, instead of moving the machine.

Mecalac e-Series range, for a green worksite with no compromise

Mecalac aim is to revolutionise urban worksites thanks to its full new range of 100% electric products. The company states that three electric Mecalac machines on the same urban site will save an average of 64t of CO2 annually when compared to the same models fitted with diesel engines. In addition, Mecalac says that its zero emission solution will limit noise pollution, enabling working indoors, as well as reducing costs related to maintenance and operation (with fuel being replaced by electricity).



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