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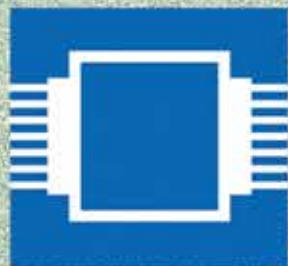
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Cover picture: Picture from the inauguration of the first Indian Demolition Association in Mumbai, 13 November, 2019.

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Help us celebrate the Silver Jubilee of IACDS in 2020

At this time of year people usually take stock of how the year has gone, look back to see the goals achieved and set new objectives for the new year. As my first year as president of the International Association of Concrete Drillers and Sawers, I also want to share with you my assessment of 2019 and the projects which we are starting in 2020.

In 2019 the association has continued to see membership grow and due to my Austrian roots, I am especially proud of the incorporation of the Austrian national association, VBS. I am convinced that together we will keep growing in order to give greater recognition to the industry and we will continue to promote new contacts and exchange of best practices at an international level. Proof of this is was the 8th edition of the Diamond Award. This year we had a record number of entries, both in the 'Best job' and 'Best product' categories. I encourage all professionals to participate in the next edition of the Diamond Award in 2022. The awards ceremony will take place during bauma 2022 and we will of course look forward to seeing you in Munich!

This year also marked a milestone in the history of IACDS. For the first time since its foundation, the association has launched the first Yearbook with the participation of members and national associations. I invite you to meet us at www.iacds.org/yearbook.

How is 2020 presented? I would like to have a crystal ball to know how the market and our sector will evolve; however, the Three Wise Men have not yet brought it to me. So, the only thing I can tell you is that good times should be enjoyed with the people we love, our family, friends and colleagues, and when difficult times come, you have to rely on these networks. I encourage you all to join the national

associations of your countries to build a strong network with which to share the good and the bad times.

What I can definitely tell you about 2020 is that we do have several interesting projects in the pipe line, with the most significant for us being the 25th anniversary of IACDS. You are all invited to celebrate our Silver Jubilee on 25 March in Willingen, Germany. We look forward to seeing you!

My best wishes for the New Year.



Michael Findeis, President of IACDS



International vocational training award presented to Hidromek

Hidromek is the first private sector Turkish company to be accepted as a member of EAfA (European Alliance for Apprenticeship) which promotes and assists with vocational training projects in industry. Due to its work in this area, the company has been awarded the 'Vocational Education and Training Excellence Award'. This was presented at a ceremony held on 17

October 2019 in Helsinki, Finland. Hidromek places great importance on vocational training, providing it to over 200 apprentices, and employing 178 of them since 2005. The training programme is undertaken in conjunction with, and managed in cooperation with the Ministry of Education, the Ankara Chamber of Industry and Ankara Industrial Zone Management.



Double digit growth in third quarter 2019

The third quarter of 2019 saw the Wacker Neuson Group remain on the growth path set during the first half of the year. Revenue increased 12.4% relative to the prior year period to reach €467.2M (Q3/18: €415.8M), with growth being fuelled by significant gains in all three reporting regions. Group revenue for the first nine months of the year amounted to €1,417.9M, a rise of 14.3% relative to the previous year (9M/18: €1,240.9 M).

At €40.2M, the Wacker Neuson Group reported a slight drop in profit before interest and tax (EBIT) relative to the third quarter of the previous year (Q3/18: €41.8M). The EBIT expressed as a percentage of revenue came to 8.6% (Q3/18: 10.1%). "In light of the current high levels of inventory and the increasingly

challenging market environment, cutbacks to production programmes at our plants were more extensive than originally planned. This led to a temporary drop in productivity," explains Martin Lehner, CEO of Wacker Neuson SE. Furthermore, the expected increase in profitability in the US could not be realised within the planned timeline. Initial difficulties in rolling out new processes introduced as part of restructuring measures coupled with lower production output impacted developments here.

At the close of the year, the Executive Board expects net working capital expressed as a percentage of revenue to be significantly higher than the prior year. Investments for the full year are forecast at around €90M (previously around €100M).

4th year without injuries

Factory and operational health and safety are increasingly becoming major issues for manufacturers of construction equipment. Finnish based manufacturer Allu is pleased to announce that for the 4th year in a row there have been no injuries at its Penala manufacturing plant. This tremendous achievement is due to the Allu team embracing the concept of total health and safety in the factory, with the well-being of the Allu staff being paramount to the production process. "Our people are the most important

thing to Allu, and we value their health and safety. The emphasis we place on this is shown by the fact that for the 4th year in a row there have been no reported accidents at the factory," says Allu president Oja Ulmala. Health and safety are key concepts to all at Allu. This is reflected not only in the manufacturing process, but also in the way the Transformer and Processor equipment are used in the field, with operator training and pro-active customer support being endemic to all Allu operations.

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Finally, they have released the moorings and are off. Goodbye Britain!

Britain is set to leave the EU, again, following Boris Johnson's recent landslide general election victory. The first time it appeared this was going to happen was following the referendum. This began what appeared to those outside the UK to be a 'funny political game'. This kept the whole of the EU frustrated until most of us reached breaking point and just wanted clarity on what was going to happen, and what sought of 'Brexit' the British wanted. For an outsider such as myself, it felt for a while as if there was a majority of the British people who wanted to remain in the EU. Corbyn's promise, if he came to power, to have a new referendum, confirmed this. But oh how wrong we were. With Johnson's clear victory, the last nail in the coffin has been hit on Britain remaining in the EU.

Obviously, many British people really want to leave the EU, and due to the electoral system used in the UK (the 'first past the post' system) there is a now a clear majority in Parliament for this to happen. And as the election and referendum have decided this, then they should of course do so. However, much of Europe deeply regrets this. Personally, I find it all very tedious and can see that it will make international collaboration with the UK more difficult, although many in the UK do not seem able to accept this fact. There is also a great risk that the EU will be weakened forcing the EU's attitude to the UK to harden.

This makes the agreement that will be made between the EU and the UK very important, as will what it contains. If the countries that are still in the EU wish to safeguard the value of belonging to the European Union, any agreement must ensure that Britain is not granted too many exceptions to EU rules, otherwise it would lead to more countries thinking of leaving. This could easily lead to the complete collapse of the EU, even if there is no sound basis for it. To be perfectly honest, I myself was very sceptical about the EU at first; I didn't really see the benefits of Sweden being involved, but now my views have changed significantly. Today I see many benefits in EU membership as well as shortcomings, as membership, as with any club, comes with all kinds of conditions. If the benefits outweigh the negatives then you should continue. In particular, I believe that EU membership is still valuable today, especially given developments in the rest of the world, which have led to so much uncertainty.

I have talked enough about Britain and the UK and there is nothing we can do to change the fact that the UK is leaving. The only way to proceed is to look ahead. Soon it will be Christmas and we will welcome in a New Year. Positive signals from the new EU Central Bank president Christine Lagarde on the EU's economic development signals hopes that the downturn in Europe will not be as severe as expected. We can also see that in my home market of Sweden, which in the autumn suffered a downturn, the outlook for 2020 is actually quite good, with optimism to be found in the demolition and concrete cutting industry as there is much to do.

With these factors in mind, the final issue of Professional Demolition 2019 is packed with reports, themed articles and company press releases. Amongst other things, we have published our annual features on demolition robots, diamond tools and dust suppression equipment. Next year will be a pretty big year for us and it is worth mentioning that this is the show issue for World of Concrete 2020, which will be distributed from our booth located in the central hall in Las Vegas.

The magazine will also be celebrating its 20th anniversary and once again, for the 10th time, we will be organising the Demcon demolition and concrete cutting show in Stockholm.

All of us at PDi would like to take the opportunity to thank all our readers and advertisers for helping to make 2019 such an excellent year and to wish you all a great festive

Jan Hermansson
Editor-in-Chief
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New human resources director for Allu

Following impressive expansion over the last two years, Allu, the manufacturer of the Transformer and Processor ranges of attachments, has appointed a new human resources director. Pia Pyykkinen will be responsible for all human resources issues for the whole Allu Group, including subsidiaries and will be a member of the management team. Pia brings extensive experience to the role, which follows in the footsteps of other high profile appointments. Pia has over 25 years of experience in a variety of HR roles in the Kone Group (Kone is a Finnish company and a manufacturer of elevators, moving staircases/escalators and doors. Last year its turnover was €9B and has 57,000 employees).

"We are all delighted to welcome Pia into the Allu team," says Allu president Ola Ulmala. "In order to further capitalise on our recent impressive growth, human resources and development will both be key to our



success. Our people are the cornerstone of our business and the appointment of such an experienced and knowledgeable human resources professional as Pia will be sure to help drive the business onwards."



Brock Rentals Inc. upgrades fleet

Brokk, the manufacturer of remote controlled demolition machines, recently finalised an agreement with Brock Rentals Inc. to upgrade the rental company's fleet of remote controlled demolition units with 12 next generation models. The new models feature Brokk's signature 'SmartConcept' technology, which revolutionises power management, design and ergonomics to maximise productivity over previous models. With the new models, Brock Rentals' fleet now features more than 50 Brokk remote controlled machines ranging from the compact Brokk 60 to the heavy duty Brokk 400.

"We've always relied on the safety and productivity of Brokk machines to provide viable solutions for our customers in refractory, chemical, nuclear, demolition and general construction industries," said Tomas Lundstrom, president of Brock Rentals. "The next generation models offer the best power to weight ratio on the market, in some cases doubling the power over our current models with only a slight increase in weight and dimension, opening up new opportunities and applications for our clients. In addition, they are more dependable and easier to service, making them ideal for the rental industry where machines seldom come back to the shop without some signs of use."

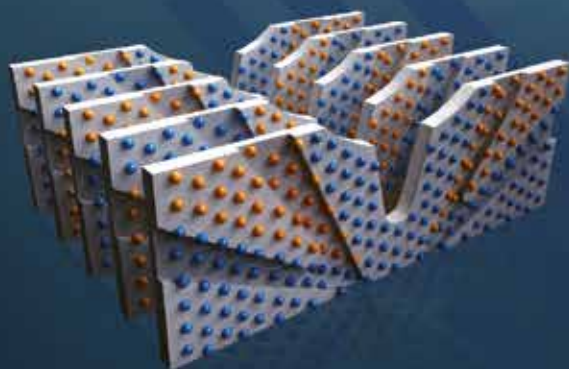
Brock Rentals opened in 1994, with one of its first machines being a Brokk 150 which was used mainly in refractory applications. As its customer base grew to include concrete demolition contractors with a wider range of applications, so did its fleet. Today the company provides rental machines to contractors and government agencies in the U.S., Canada and Mexico. Brock Rentals coordinates with certified Brokk operators across North America to ensure the safety and efficiency of its machines on every jobsite, as well as offer training and technical support to customers.

As with all Brokk machines, the four new rental units feature Brokk's three part arm for exceptional reach and movement, as well as industry leading power to weight ratios. "Brokk has always been the industry leader when it comes to technology, capabilities and raw power," said Lars Lindgren, president of Brokk Inc. "We continue to upgrade our machines to meet the needs of an ever changing demolition industry. Working with companies like Brock Rentals allows us to reach new customers and see how our equipment performs in new applications, helping us continue to advance remote controlled demolition equipment with more efficient machines and attachments."

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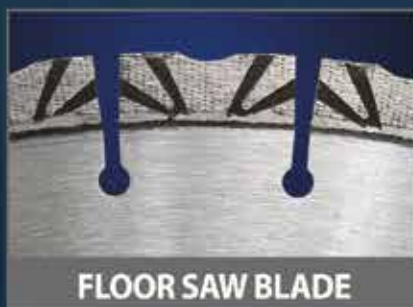


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Words from the EDA President

2020 BIG CONVENTION YEAR FOR THE EUROPEAN DEMOLITION ASSOCIATION, EDA

Since its birth more than forty years ago, the European Demolition Association, EDA, has had amongst its objectives set out to be a vehicle of relationship development and knowledge sharing amongst those who develop their business or professional activity within demolition, or are in a close relationship with it. This allows not only the establishment of fruitful personal relationships, but also the exchange of experiences and knowledge. These all enable a contribution to be made for the mutual benefit of all those who participate in the activities of EDA, continuing to advance the industry in a continuously changing environment.

To further facilitate these activities, the EDA organised a study trip to Japan in 2019, with significant assistance from our Japanese colleagues, being a highly satisfactory event for all who participated. Continuing with this approach, in 2020, among other events, the EDA will hold in the first week of February the first meeting of the year of its board of directors in Moscow. This will coincide with the first congress of the Russian Demolition Association where we will support our Russian colleagues.

Also in 2020, the EDA Annual Convention will take place in Belgrade (Serbia) between 4 – 6 June, to which it gives me great pleasure to invite you to join us. The young and very active Serbian Demolition Association has given us its full collaboration in organising the event and we are sure that it will be a great success, being of interest as well as of assistance to our members.

Should you attend, it will be a pleasure to meet again those who already know us and welcome those who will attend an EDA event for the first time. All relevant information can be found by following the link: www.european-demolition.org/convention.

If you come, you'll be sure of a warm welcome. I look forward to seeing you there.

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.

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Francisco Cobo, President of EDA, European Demolition Association

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New Hitachi dealer for Latvia and Lithuania

As of 1 September 2019, Hitachi Construction Machinery (Europe) NV (HCME) has appointed Alwark SIA in Latvia and Alwark UAB in Lithuania as its authorised dealers for a complete range of Hitachi excavators and wheel loaders.

The Baltic construction market is developing in line with economic trends and shows potential for growth over the next decade. The Alwark Group, established in 2007, is well prepared to service these market conditions. It provides sales, rental and maintenance of new and used material handling, warehouse, seaport, and airport equipment as well as municipal machinery. With 11 sales and service locations, it has 150 employees and achieved a turnover of €36M in 2018.

The group's success is based on developing successful long term partnerships with its customers explains Alwark SIA marketing manager Evita Tuca: "The most important thing is being a reliable partner to our customers, which means much more than just good service, the best price and availability. It means people, flexible cooperation and understanding the core of the successful re-

lationship." The Lithuanian market is however also experiencing rising labour costs, both in the construction sector and in equipment maintenance. "They are increasing much faster than average in the EU, so there is a need to purchase new construction equipment or at least replace older machines with newer models in order to increase productivity and efficiency," says Alwark UAB marketing manager Aiste Simkiene.

HCME president Makoto Yamazawa believes that the Alwark dealers are ideally positioned to service the potential growth in the Baltic countries. He says of the appointment, "We welcome Alwark as the latest member of the Hitachi authorised dealer network. There is significant growth potential for our market share in these Baltic countries, and we look forward to supporting our new and existing customers in Latvia and Lithuania."

Allu announces new dealer for southern U.S. States

Lyle Machinery Company, headquartered in Richland, Mississippi, has been announced as the newest dealer for the full line of Allu Transformer material processing attachments. The company will provide sales, rental and complete aftermarket service for customers throughout Mississippi, the Florida Panhandle, and sections of Alabama, Louisiana and Texas.

The Lyle family entered the equipment business in Mississippi in 1985 and throughout its history, the company has focused on meeting its customer needs through a wide range of equipment, parts and service. The company offers new equipment, pre-owned equipment and equipment rentals, as well as financing and extensive support, including a fleet of service vehicles to assist customers 24h a day, seven days a week.

Headquartered in Richland, Mississippi, and with 11 locations across the southern states, the appointment of Lyle Machinery as its distributor reinforces Allu's commitment to providing high levels of customer focus. By combining local expertise and support with the benefits of dealing with a truly global company, Lyle Machinery Company customers' are set to benefit from a winning combination.

"We have always taken a customer first approach," says Marc Dowell, vice president of sales for Lyle Machinery. "We believe in offering better products, better service and true partnerships. That's why Allu provides such a good fit for us. They offer a unique product that we feel can truly increase our customers' efficiency and productivity."

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Aquajet Systems AB has appointed Keith Armishaw as business development manager for North America.

Aquajet appoints first North American business development manager

Aquajet Systems AB, the hydrodemolition machinery manufacturing company, has appointed Keith Armishaw as its first North American business development manager. Armishaw works closely with Aquajet's regional sales teams to grow awareness of Aquajet's hydrodemolition solutions in key markets across North America. Additionally, he is focused on enhancing support for current customers through industry wide educational initiatives that increase understanding of the benefits of hydrodemolition.

"We are excited to welcome Keith to the Aquajet team," said Roger Simonsson, Aquajet Systems AB managing director. "For the past decade, he has developed a thorough understanding of our product and its benefit to Canadian customers. As more and more contractors and decision makers across North America recognise the value of hydrodemolition as a safe, efficient alternative to traditional demolition and cleaning techniques, Keith's application knowledge and experience will help to support customer success across a variety of industries."

Armishaw joins the Aquajet team with 24 years of experience in the construction sales and service market. He was previously employed at Pompaction Inc., a Quebec based distributor of Aquajet, and other brands, working his way up from service technician to service manager and finally to sales, moving in 2009 to the sale of Aquajet products.

Rubble Master sets course for future growth

A great deal has been happening at Rubble Master recently which has now grown into the RM Group. The expansion of RM's headquarters in Linz-Pichling is a milestone in the company's development with a newly installed management team set to drive the company forward.

In 2018 RM recorded the most successful year in the company's history to date, with 2019 set to see the continuation of this successful course. "The ongoing further development of our entire product range and the spirit of innovation experienced in our company ensure a sound order intake and play a decisive role in our results," says CEO and founder Gerald Hanisch. "Worldwide demand for RM has increased again this year (2019). The integration of Maximus into the RM Group has also been highly successful, so the focus is now on implementing our market strategy," adds CFO Günther Weissenberger. In addition to extending its product range, RM's success lies in its unique corporate culture, its internal innovation processes and the members of the RM Family. "We intend to continue growing continuously and successfully in the future; and that requires internal measures in order to live up to this claim," says Hanisch.

New management team with a vision for the future

RM has brought in a new level of management in order to remain a leading pioneer in the industry and set new standards in the future.

"RM is preparing for the future preparations for further growth," confirms operations manager Manfred Nowak. With 20 years of management experience, Manfred is now responsible for production, purchasing, supply chain, warehousing and IT. Likewise Christian Spicker, chief sales officer brings with him many years' experience to his position. "RM is a company with clear values that are immediately apparent. The transparency and openness were noticeable from the very first moment." He sees young people holding the key to the future: "As an innovative and exciting employer, we want to be a link to educational institutions, universities and technical colleges."

Markus Gaggl, chief technology officer, has a passion for the industry in which RM operates and understands how the market is changing and what is needed. "To provide our customers with the highest flexibility in future we will focus even more on the configurability of our products." Once a senior product manager at with the company until 2018, he left to re-evaluate his career before returning in a new position. "It was as if I had never been away - like coming back to your family after a trip around the world." Gaggl is now respon-

sible for product management, engineering, innovation management and digital services, where he will be able to use his strengths in the best interests of the company. Julia Aschenwald, head of administration, is also enthusiastic about the RM Family: "Despite consistent growth, RM never loses touch with people. That is why I am delighted to be part of the RM Family." Apart from her passion for numbers, loyalty to the company is one of her priorities. Since graduating from Steyr University, Julia was head of accounting company for five years and is now responsible for all RM's administration.

Expanding production in Linz

As well as the new management team, another important step in the company's expansion strategy has been in extending the Linz-Pichling site. CFO Günther Weissenberger states that, "RM is committed to the Linz location and will expand the location step by step over the next few years according to the master plan that we have developed. In order to promote further growth, we have decided to expand our management team in order to support the company's development together."



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VBS, NEW MEMBER OF IACDS

The International Association of Concrete Drillers and Sawers, IACDS, has increased its presence in the world's industry with the addition of a new member: Association of Austrian concrete a drilling and cutting companies.

Verband österreichischer Betonbohr- und Schneideunternehmen VBS is the association of Austrian concrete drilling and cutting companies. It was founded in 1994 by many of the specialist companies in Austria, such as machine manufacturers and diamond tool suppliers. Amongst the many highlights of its work so far has been in the development of the world's first state standard for concrete drilling and cutting work, ÖNorm 2253, which was implemented in 2000.

German demolition and dismantling conference

The upcoming Fachtagung Abbruch conference will take place at Station-Berlin on 28 February 2020, welcoming attendees from the demolition and dismantling industries. Held by the German Demolition Association, which itself is a member of the European Demolition Association that has supported the event for a number of years.

The last event saw more than 1,000 attendees and 116 exhibitors help make the conference a leading industry event. During last year's conference around 20 presentations were made by experts and practitioners in their respective fields, reporting on current and new developments in technology, pollutant decontamination, recycling, safety at the work place and interesting demolition projects. The accompanying industry exhibition proved to be a place of interest with the informal evening event enabling participants to cultivate contacts in a relaxed atmosphere.

Interested parties wishing to attend the DA Annual Convention 2020, are invited to visit: <https://www.fachtagung-abbruch.de/en/>

AEM-CECE make joint statement on free trade

Equipment manufacturers on both sides of the Atlantic have asked for reason and mutual benefit to prevail in the current trade related discussions, emphasising that the free flow of trade and investment is the lifeblood of modern manufacturing. Equipment manufacturers in the United States and the European Union depend on global supply chains to source parts and components and access foreign markets to export their machinery.

The AEM and CECE state that today 80% of world trade is driven by supply chains, with trade in intermediate goods now nearly twice as large as trade in final goods. This is especially important in advanced manufacturing such as construction equipment manufacturing. As both the United States and European Union are centres of technological development, transatlantic trade is helping create a strong path to sustained manufacturing competitiveness. However, recent government decisions are threatening to undermine continual economic growth and development.

The United States has recently announced its plans to place tariffs on €6.8B of European Union goods, including certain types of construction machinery, following the WTO

ruling on Airbus. The EU may follow suit if the WTO Boeing case is decided against the U.S. Notoriously, the use of tariffs will inevitably lead to counter tariffs, lost markets for producers, higher consumer prices, shaky investor confidence and the potential to undermine long established transatlantic supply chains that both workers and industry depend on.

The organisations state that both the United States and the European Union need to focus on removing barriers to trade while working together to counter unfair trade practices by third countries. Strengthening the rule of law and reforming the WTO to effectively respond to the challenges of global commerce in the 21st century is in the shared interests of both the United States and the European Union.

By issuing a joint statement, the European Construction Equipment Manufacturers (CECE) association and the American Association of Equipment Manufacturers (AEM) call on the European Union and the United States to work diligently together to defuse tensions. They further request that the United States abandons all plans of imposing these tariffs and avoid escalations leading to the imposition of additional tariffs by the European Union.



Vision 2020: LiuGong hold European dealer conference

From 14-16 November, LiuGong Europe held its 2019 European dealer conference at its European headquarters in Poland under the theme of 'Vision 2020'. 100+ attendees from more than 25 countries, representing LiuGong Europe dealers, industry associations, partners, government officials and LiuGong management and staff, were gathered to celebrate achievements made during the last year.

Zeng Guang'an, chairman of LiuGong Group, stated in his opening address: "We are a global company, but keeping it local is a key factor for our business. This event is very important for me, because it gives me the opportunity to meet with you and talk with you in the heart of your own markets. As you all know, we have significantly increased our investment in research and development, quality improvement, science and innovation. We are committed to designing in Europe, manufacturing in Europe and supporting our

machines from Europe. But above all, we are committed to supporting our European business partners to enjoy success by growing a sustainable and profitable business, built on the highest levels of customer satisfaction. During the next two days, you will see clear evidence of this innovation in action. The theme for this event is Vision 2020, supporting our ambitious strategic vision for 2025."

During the conference briefing sessions guest speakers from leading industry partners, including Off-Highway Research, Tierra Telematics and Mascus, gave further insight on industry developments and their partnership with LiuGong. The sessions also included LiuGong's experts who delivered presentations on various customer working applications including forestry, demolition, mining and quarrying. LiuGong Europe's leadership team addressed the gathering about the achievements and further plans to achieve Vision 2020.



Helena Hedblom appointed as Epiroc's new president and CEO

Epiroc AB has appointed Helena Hedblom as its new president and CEO. From 1 March 2020 she will replace Per Lindberg, who has decided to leave his position after having successfully established Epiroc as a listed company.

"Helena has a strong business focus, an in-depth knowledge of the business and is an appreciated leader who is living and breathing the Epiroc values," said Ronnie Leten, chair of Epiroc. "As head of the Mining and Infrastructure business she has grown the business with increased earnings and a focus on strengthening productivity, safety and efficiency for customers. We are proud that we found the new leader inside the group and are confident that she will further develop and grow Epiroc."

Helena Hedblom is currently senior executive vice president Mining and Infrastructure and a member of Epiroc group management. She is also a director of IPCO AB and the Swedish Association of Mines, Mineral and Metal Producers (Svemin), was born in 1973, is a Swedish citizen, and has a M.Sc. in Material Technology from the Royal Institute of Technology, Stockholm, Sweden. Per Lindberg will resign from the board of Epiroc AB the same time he leaves his position as president and CEO.



GRX multi jaw demolition tool wins Award

The Genesis GRX Razer X multi jaw demolition tool was presented with the 2019 World Demolition Summit Award for Innovative Tools and Attachments. This award recognises an innovative approach in the design and engineering of new mobile tools of all types that have been tailored to meet the specific requirements of the demolition and recycling industries. The GRX enables excavator operators to change jaw sets in less than two minutes, without leaving the cab. The attachment body contains hydraulically actuated pins that connect to the cylinder and jaw set. This enables the operator to change jaws without assistance, making changes faster and safer.



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New Cat 326 'Next Gen' excavator delivers increased efficiency

Key to the design of the new Cat 326 is operating simplicity. From remote start using a Bluetooth key, or the unique operator ID function to operator specific programming of power mode and joystick preferences, the excavator is easier to operate than ever before. The machine's touch screen monitor delivers intuitive navigation through its operating menus and includes a digital version of the operator's manual. Meeting the most stringent emissions standards, the Cat 7.1 engine efficiently powers the new excavator with up to 15% lower fuel consumption compared to the F Series.

The new excavator features three selectable power modes and one touch low idle with automatic engine speed control. It also boasts a standard high ambient temperature operating capacity of 52° and standard cold start capacity of -18°. The advanced hydraulic system of the new Cat 326 provides the optimum balance of power and efficiency, while giving the operator complete control of excavating precision. The machine's 12% improvement in swing torque makes the machine easier to swing, especially on inclines with fully loaded buckets.

'Smart' mode operation automatically matches engine speed and hydraulic power to digging conditions, while offering additional 5% fuel savings without impacting productivity. Optional 'Smart-boom' allows the boom to lower freely without using pump flow, therefore saving fuel. It can also be used when hammering to apply just the right amount of down force. 'Advansys' bucket tips are quickly changed with a lug wrench to improve safety, with the versatile excavator featuring auxiliary hydraulic options for using a wide range of Cat attachments.



New Stage V M-Series loaders

Enhancing Bobcat's presence in the skid steer loader market in Europe, the company has launched new versions of its M-Series S450, S510 and S530 models. These are the first in the range to feature a specially developed Stage V compliant Bobcat engine, with all of the new models being manufactured at the Bobcat compact equipment plant in Dobris in the Czech Republic. The new Stage V M-Series loaders provide operators with increased performance, enhanced comfort and optimised maintenance requirements to maximise job site efficiency. They are designed to continue the success of the Bobcat range globally.

Mike Vought, senior director, product management, commented: "M-series loaders are some of the best-selling models for Bobcat in Europe and the new Stage V machines build on the legacy set by their predecessors. Customers will benefit from the compact size coupled with the high torque and performance of the new engines. The Stage V engines also allow us to add the popular air conditioning and high flow hydraulics options to the 500 series models further increasing operator comfort and performance."

Skilful design work has ensured that even with the Bobcat Stage V engine incorporated, the small dimensions of the new S450, S510 and S530 skid steer loaders are maintained. They possess both a compact size and low weight, meaning they can work and manoeuvre easily in tight spaces and be easily transported. The new Bobcat engine also provides 37% more torque and fast recovery from overload compared to the previous machines. This provides increased comfort for the operator as they can work with the same power at lower RPM.

Another very important advantage derived from the Bobcat engine is the availability of a new high flow hydraulics option for the S510 and S530 Stage V models. This further expands the exceptional versatility of these machines allowing them to be used with higher flow attachments such as sweepers, planers and wheel saws. By offering the same power at lower RPM, the new Bobcat engine provides a significant decrease in noise levels, reducing operator fatigue and lowering fuel consumption for the same type of work. In addition, with an engine equipped with a diesel particulate filter (DPF) as standard, users can work in emission regulated zones such as city and town centres.

Revolutionary new side gripper

Dieseko Group B.V., the supplier of innovative foundation equipment has recently launched what is said to be a revolutionary new side gripper, the 2308SG. "Dieseko is using over 45 years of experience in vibratory hammers to be applied in their new side gripper making it a unique and reliable machine. Unique in the side clamp principle and in elastomer geometry, and reliably applied by proven vibratory technology," says Dirk Smulders, CEO of Dieseko Group.

"Before we started to develop, Dieseko performed an extensive study on existing side grippers available in today's market and interviewed a lot of side gripper operators to understand their challenges. During the development phase of our side gripper, Dieseko's R&D engineers focused on providing a concept which improves the challenges experienced with side grippers currently available, without neglecting Dieseko's design philosophy - limited number of moving parts and protected hoses, both resulting in a high reliability, (using) only three hoses for connection."

Dirk also explained that there are four major differences compared

to existing systems. These comprise of a unique linear side clamping system resulting in a more efficient clamping load transfer; a modular side grip clamping system resulting in less downtime during exchange of the side grip inserts for various profiles. Furthermore the clamp opens up to 330mm for sheet piles and H-beams and 550mm for casings, whilst unique multi directional elastomers create a more stable and predictable movement of the dynamic part of the side gripper.

In addition to the above, the exchangeable excavator connection adapter allows the side gripper to fit onto any excavator adapter type, whereas the unlimited 360° rotary head with + or - 35° tilting adapter makes it possible to operate the side gripper in any position while handling a profile. Its distinctive design is easily accessible for maintenance and after extensive testing, partly by very experienced side gripper operators, the results and experiences proved to be very promising. The 2308SG uses an oil flow of 214l/min at 350bar, with a 35t excavator being required for best performance, with operation being done by remote controlled joystick or excavator controls.





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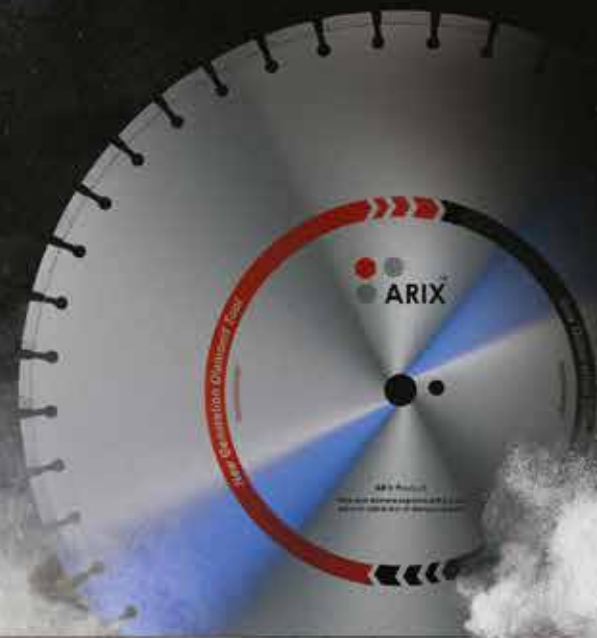


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20 years of Erkat, three years owned by Epiroc, a success story

Founded as a 2 man operation, the highly respected Erkat brand is marking its 20th anniversary. Since January 2017, Erkat has been part of Epiroc, and under the Epiroc umbrella, the Erkat drum cutter units have continued to have a bright future, with constant innovations being developed for even harder tasks and more specialist applications.

A win-win situation

Epiroc was able to expand its Construction Tools Division in January 2017 with the incorporation of Erkat. A successful brand in itself, it is still based at the Hämabach site with a product range that includes high quality transverse and longitudinal drum cutters for demolition, trenching, tunnelling and rock excavation, that make the perfect addition to the Epiroc product ranges. Coming under the Epiroc umbrella has had other positive impacts for Erkat; there is now increased awareness for its innovative products and new customer groups have been added. There are operational synergies such as carrying out main material removal with an Epiroc breaker, followed by polishing with the Erkat cutter unit during tunnelling work.

Highly versatile

The ER cutter unit series is highly versatile, meaning that for excavator classes from 0.6t to 125t, Erkat offers a wide selection of different cutter unit sizes (ER 40X to ER 5500). Different cutting heads are also available for the relevant base unit depending on the usage area (rock milling head, profiling head, cutting wheel, mixing head, wood milling head, brush head). Robust design, high



resilience, low maintenance and easy handling (with the 'QuickSnap' lock for example) offer impressive efficiency as a matter of course.

The ER series is equally suited for trenching and tunnelling work, special civil engineering, demolition work, milling ditches and for mixing soil formations. They can also be used in particularly sensitive areas, as extremely low vibration and low noise work is possible, whilst the cutter units can even be used in water depths of up to 30m with no modifications. This means that Erkat products are ideal for working in even the most difficult conditions.

The advantages of the products were readily apparent during building work at Berlin's central station, where the cutter units ER 1500 L and ER 2000 X are currently demonstrating their flexibility. Here they are creating space for a hydraulic Epiroc breaker to find the right point for breaking the concrete ground – an ideal division of work. The transverse drum cutters are also delivering impressive performance working high up on

the bunker ceiling during the selective reverse construction of a high rise bunker in Hamburg Eimsbüttel. The focus here is on low vibration work, efficient demolition performance and quick tool replacement.

Quality and innovation for the future

In future, the focus will be on constant further development to reflect market requirements. Epiroc aims to expand the position of Erkat products even further, minimising fine dust pollution at construction sites with more efficient water spraying and to significantly increase the product range. Reinforced cutter units for demolition and tunnel construction, specially developed rotator systems, cutting wheels for mounting on existing transverse drum cutters, brush heads with and without dry aspiration and much more are already available. A focus will be placed mainly on sustainable work areas such as renovations, explosive free reverse construction in inner city areas or the removal of contaminated surfaces, with all solutions being developed at the Erkat Hämabach site.



bauma China 2020

With around one year to go before the start of the trade fair, preparations for bauma China are progressing at full speed. The 10th international trade fair for construction machinery, building material machines, mining machines and construction vehicles will be held from 24 to 27 November 2020 at the Shanghai New International Expo Centre (SNIEC). More companies have already signed up than at this time two years ago and any companies wishing to register can still do so up until the end of February. The relevant documents can be found on the website: www.bauma-china.com/application.

Since it was launched in 2002 bauma China has developed into the largest and most important industry event in the whole of Asia. 3,350 exhibitors from 38 countries and regions showcased their companies and products to over 212,000 visitors from Asia and all over the world at the previous event in November 2018. It

already looks as if bauma China 2020 will also occupy the entire exhibition space available, a total of around 330,000m². "The current registration figures are significantly higher than they were at this point in time for the previous event in terms of the number of exhibitors and the amount of exhibition space that has been reserved," says exhibition director Maritta Lepp.

bauma China will continue along the path already laid down by bauma in Munich in terms of current topics and innovative developments, with digitalization and automation being the main drivers of development in the construction machinery industry. As such, smart and low emission machines and vehicles with integrated digital solutions will feature heavily at bauma China. A leap in terms of technological development is also expected as a result of the further tightening of emission standards for unroadworthy diesel vehicles, which China has announced will be introduced at the end of 2020.

REBUILD SYRIA to be held 9 – 13 September 2020

The 6th Rebuild Syria exhibition will be held from the 9-13 September 2020 in Damascus, aimed at local and international building and manufacturing companies. The exhibition covers several sectors including building and construction, electricity, bridges and railroads, water and sanitation and telecommunication, as well as renewable energy machinery and equipment.

Construction Indonesia 2020

The 22nd Construction Indonesia will take place from 16-18 September, 2020 in Jakarta, organised by PT. Pamerindo Indonesia. MEREBO Messe International based in Hamburg, Germany, is responsible for the Europe, America & Australia/ NZ Pavilion, which is dedicated to companies, associations, chambers of commerce and trade press from these regions. Construction Indonesia 2020 features products and technology, heavy equipment, building materials, manpower and management as well as other construction related services, with the last event in 2019 attracting 12,811 attendees and 366 exhibitors from 22 countries.





L975F

The L975F wheel loader from SDLG is the OEM's biggest wheel loader to date and has been developed with a focus on durability, fuel efficiency and improving job site productivity. The highly reliable L975F can be used for a range of tough applications on construction sites, as well as in quarries, mines and port terminals. "We are proud to introduce the L975F to our wheel loader offering," says SDLG product manager Henrik Sjöstrand.

The L975F is designed with robust rear and front frames to withstand load distribution. Equipped with a large tonnage driving axle and reliable braking, it is fitted with a 199kW engine. The transmission uses a HTE205C fixed axis electro hydraulic automatic shifting gearbox for flexibility and ease of operation, and is SDLG's first machine that uses a fully automatic transmission built by Volvo.

With greater load capacity and durability, the SDLG L975F can tackle the toughest of applications. The standard 4.2m³ bucket with eight bolted on teeth and two wear plates features a spill guard plate to prevent material loss. The maximum dump height, at 3.2m, is supported by a 3.6m boom. The second stage 93 sand filter in the hood of the machine removes over 95% of particles when working in dusty conditions to keep the job smooth and efficient. Featuring LED lights with high brightness capacity for operating in badly lit conditions, the operator's line of vision is never compromised. The machine's new generation cab includes a safety lock, increased sealing, field of view width and 12% more space, meaning that the operator is ensured a reliable, safe and easy experience.

Owing to its focus on improved machine durability, fuel efficiency and productivity, the L975F offers unrivalled support where the job demands and demonstrates the necessary power to support a profitable business.



Caterpillar launches new 6t Cat 306 CR 'Next Generation' mini hydraulic excavator

Designed with an improved customer experience in mind, the new Cat 306 CR mini excavator is built to exceed customer expectations with strong performance, enhanced operator experience and simplified maintenance with extended service intervals. With standard exclusive features, it provides a great value for customers and boasts what is said to be industry leading performance.

The new mini excavator features heavy duty main structures, a fuel efficient engine, load sensing hydraulics, spacious cab and exclusive 'Cat Stick Steer' system. It shares a similar control layout and common components with the full line of Cat Next Generation mini excavators to simplify training, offering quick adaptation for operation and lower owning and operating costs. With its long stick option, the Cat 306 CR delivers a maximum dig depth of 4,110mm and 7,175 kg maximum operating weight when equipped with the sealed and pressurised cab.

Offering big performance features in a mini excavator format, the Cat 306 CR delivers what is said by the company to be class leading lift performance of up to 3,555kg at a 3m radius, whilst enhanced uphill swing torque and increased cycle times provide greater productivity and efficiency. The machine's fuel saving, load sensing hydraulic system, with an electronically controlled variable displacement piston pump, generates

151l/min hydraulic oil flow. It also offers the hydraulic capacity for increased travel performance and higher digging forces.

The high flow rate of 90l/min to the auxiliary circuit enables operation of even the most demanding hydro mechanical attachments. Complete with quick disconnect lines, the standard auxiliary hydraulic system provides one way, two way and continuous flow. The Cat C2.4 turbo diesel engine rated at 41.7kW powers the new mini excavator and meets EU Stage V emission standards. It features a power dense design and delivers consistent performance through a wide speed range. Automatic engine idle and shutdown features help to save on fuel consumption.

The new mini hydraulic excavator shares common components with models in the Cat mini excavator line to lower repair cost, decrease service time and reduce repair parts inventory. Major machine structures – upper and lower frames, track frames, boom and sick – are modelled after its larger Cat excavator counterparts for long term durability. Ground level access to maintenance checkpoints offers convenient access, while enhancing worker safety. Industry leading grease intervals help to shorten the daily service routine, whilst extended filter service life means the Cat 306 CR mini excavator spends less time in the service shop for routine maintenance.

Komatsu Europe launches WA80M-8 compact wheel loader

The WA80M-8 compact wheel loader is designed to deliver first class operator comfort, optimum visibility and outstanding safety levels.

Designed for use on construction sites, for gardening, landscaping or agricultural jobs, the Komatsu WA80M-8 is a reliable and versatile tool, with a hydraulic quick coupler, 'Easy Fork' kinematic and a wide range of available attachments. "The new WA80M-8 is an authentic all-rounder," says Michael Wadsack, product manager at Komatsu Europe. "Compact dimensions, excellent visibility and a wide variety of options make this latest Komatsu compact wheel

loader everyone's favourite little helper on the jobsite."

The WA80M-8 has an operating weight of 5,995 kg and is optimised for tough construction applications. It has a powerful Komatsu S4D98E-6VHA low emission engine (53.7kW) that complies with EU Stage V regulations. A fully automatic hydrostatic transmission sends power to all four wheels. With high rimpull, superior breakout power, high lifting and dumping height and enough reserves for even the most difficult ground conditions, the WA80M-8 also features low fuel consumption. The operator is also able to rely on Easy Fork kinematic to transport loads with

Komatsu pallet forks parallel to the ground without readjusting the fork tines.



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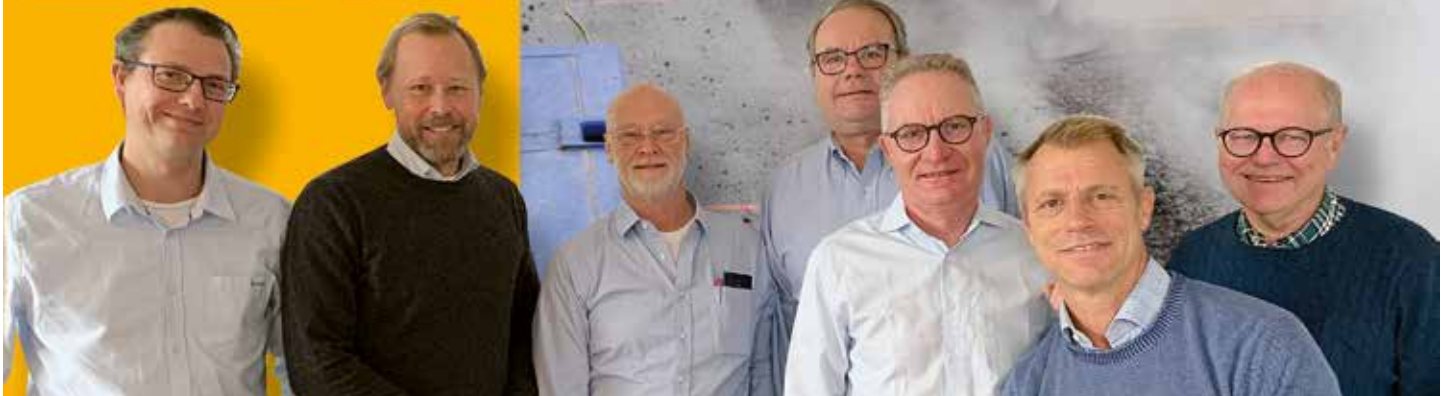
FULL SPEED AHEAD

Conjet is now taking an important step forward in terms of improved product development and production, marketing and global sales of advanced hydrodemolition equipment. Since November 2019 Gulfstream Nordic Holdings AB (GNH) has entered into an agreement to acquire a majority shareholding in Conjet AB. This new partnership with GNH will fuel and accelerate the future growth for Conjet, the world's leading player in terms of hydrodemolition equipment. Read more on www.conjet.com.



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FOR SAFE HYDRODEMOLITION



URBAN DEMOLITION PROJECT BENEFITS FROM ATOMISED MIST SOLUTION

A Colorado demolition company has successfully complied with strict urban dust suppression regulations throughout a sensitive 18 month demolition project, from structural implosion to site clearing. Using two atomised misting cannons to control dust created by the takedown, Colorado Cleanup Corporation (CCC) was able to demolish the University of Colorado's eight story Biomedical Research building and its Health Sciences Centre in the middle of a well populated Denver neighbourhood with zero air quality complaints. "A project of this magnitude in a densely populated area requires the expertise to know when and where fugitive dust is produced," said Chris Formanek, senior project manager at CCC. "But just knowing how it's created isn't enough. You need to know how to stop the dust before it leaves the project site."

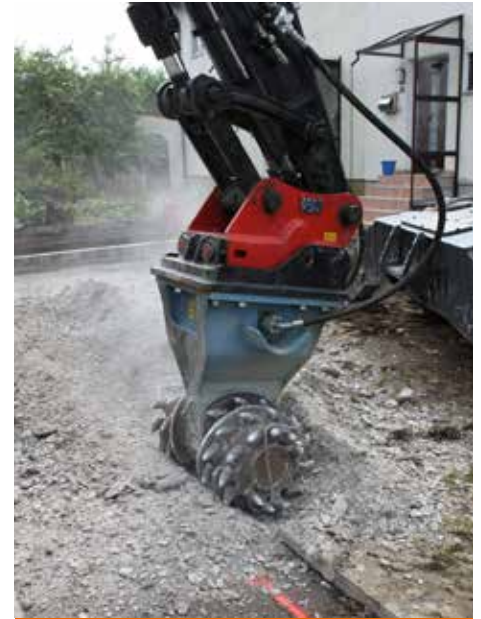
Out of the 800,000m² or so of land containing 13 structures, only one had steel construction, and the rest were poured in concrete. Thus, CCC employed several different types of machinery, from standard excavators to high reach excavators with hydraulic attachments. The entire system required CCC to remain compliant with the strict regulations of allowable particulate emissions and control waste water run off as mandated by the State of Colorado and further restrictions specified by the municipal permit. "The two areas in the process that create the most dust are where the concrete breaks and the point of impact with the ground," Formanek pointed out. "Large and small chunks of debris would fall into the safety zone, which kicked up a lot of dust. Also, every time the processor uses hydraulic pressure to break the concrete, it creates a plume of dust. This usually happens high up, so the particles can travel pretty far. We needed a method that effectively controlled dust in both of these areas."

Formanek cited the misting cannons from BossTek (Peoria, IL) as a key to the project's success. Having seen

the company's DustBoss atomised dust suppression in trade magazines and at industry conferences, project leaders contacted the manufacturer for more information. Either mounted on a roadworthy mobile carriage or a heavy duty metal skid, the DustBoss model DB-60 has a specialised open ended barrel design with a powerful industrial fan on one side and a misting ring on the other. A booster pump sends pressurised water through a circular manifold fitted with atomising nozzles. The nozzles fracture the water into an engineered mist that throws millions of tiny droplets in a 60m cone.

The mist can be directed at a specific activity or fanned out over a large area using the 359° oscillator, which allows the machine to cover approximately 11,613 m² in calm conditions. Powered by a 60kW diesel generator set, the machine's functions are controlled either via digital touch screen display mounted on the unit, by remote hand held device or by PLC (Programmable Logic Control). This makes it easy to be adjusted by workers on the ground or even by excavator operators. "It created a big curtain around the zone where we directed it, which pulled the dust right out of the air," Formanek said. "It covers a large area and does a great job. We especially like how little water it uses."

The DB-60 uses only 45.4 l/pm to 101.1l/pm, depending on the water source, however, CCC had access to municipal hydrants, which provided more volume and pressure. Using a 38.10mm quick disconnect female coupling for the hose, the unit only needs 0.69bar delivered to the booster pump. This low requirement allows the machine to be far away from the source, while still providing effective airborne dust control and surface suppression. "We were impressed by how effectively the DustBoss worked, even high up," Formanek said. "The versatility is key to our operation, so with a few minutes of set up and adjustment, we essentially just turn it on and walk away."



ROTARY DRUM CUTTERS REDUCE DEMOLITION NOISE

Construction noise is one of the most disturbing sources of nuisance in sensitive areas and if there is any 'ground shaking', residents suffer even more. The solution for working with minimal noise and without vibrations is often found using Rockwheel rotary drum cutters.

People will put up with construction noise but not if it's on their doorstep. This is where low noise Rockwheel rotary drum cutters come into their own, effortlessly crushing concrete, including reinforcement. This eliminates the vibration and ear splitting noise a hammer produces during operation, with only the engine of the excavator and the material working making a noise.

An example of low noise demolition was the removal of foundations in the densely populated residential area of Gaildorf, Baden-Württemberg. The old garden foundation wall had to be removed due to renovation. In no time at all a Rockwheel D15 on a 16t Hidromek excavator swept the foundation out of the front garden without disturbing the neighbours. Demolition drums with a helically shaped web cut through the reinforcement without any problems. Furthermore the pebble sized demolition material resulting could be reused straightaway for backfilling. Dust free operation is just as important as low noise operation. During the application five nozzles sprayed a fine water mist towards the drum, preventing any dust from spreading. The hose feed is located in the cutter housing and is therefore not affected by the demolition work.

The General Administrative Regulation (AVV) for protection against construction noise requires building owners, contractors and site managers to use low noise construction machinery and to use it efficiently. This is achieved with a Rockwheel. Three to four times faster than a hammer, a Rockwheel attachment milling cutter will work on the same material with minimal noise and vibration. The manufacturer firmly believes that cutting is the future in demolition.



DEMTECH INDIA 2019

A TRUE SUCCESS!

India's ever first conference for demolition, recycling and remediation was held on 13 November at the Hotel Sahara Star in Mumbai. The result of the event can be summarised in a few words: a true success!

Although PDi Magazine and Riverbends Publishing, LLC, were co-producers of Demtech that is not the reason why I write that the event was such a success. I have written it because it is actually true.

Risky project

To arrange a new industry focused conference was a risky project. Mohan Ramanathan, owner of the Indian demolition and recycling company ACT located in Chennai, contacted PDi Magazine at our booth at the bauma show in April this year. Ramanathan frankly asked us if we were interested in supporting and co-producing the event. We of course said yes. The reasons were simple: PDi Magazine is a truly international magazine for demolition, recycling, remediation, concrete sawing and drilling, concrete floor grinding and polishing and related service and product sectors. Hence Demtech was exactly the kind of event we want to be involved in.

After we agreed to cooperate with organising the event, intensive work with planning and marketing campaigns started with several online meetings, numerous emails and WhatsApp conferences. The Chennai based event and media company, Livewire Media, was hired to assist with planning and practical actions. "We had roughly six months to find sponsoring companies, work out an interesting conference agenda with speakers that both could present the current situation on the construction market in India and what can be expected in the coming five to ten years," says Mohan Ramanathan concerning the planning of Demtech.

Strong support from the sponsors

Demtech was not only the ever first ever Indian demolition, recycling and remediation event, it was also the place where India's first demolition association was inaugurated, IDA – Demolition Association. This was also an initiative and long-time dream of Mohan Ramanathan. Six hard working months were faced, involving numerous contacts with potential sponsoring companies and discussions with Indian demolition,

recycling and remediation contractors. Ramanathan received almost instantly a positive response from the majority of contractors he talked to, and likewise, the response from the sponsoring companies was almost just as immediate and positive.

Volvo India agreed to be the headline sponsor, with Epiroc, Hilti, Brokk, Aquajet Systems and Sennebogen acting as associate sponsors, whilst Husqvarna, Edifice, Pentrunder, Shearcore, Kemroc, Kobelco and Tyrolit were affiliate sponsors. As co-organiser, I wish to express my



Mohan Ramanathan, initiator of Demtech India 2019 and the Indian demolition Association, IDA. Ramanathan was also selected the first chairman of IDA.



The Demtech India 2019 conference ended with a panel discussion lead by moderator Jan Hermansson from PDi Magazine (far left). The panel participants were, from the left Professor N. Gopalakrishnan, Director at CBRI (Roorkee), Mr. Shriram D. Matte, Director at Matte & Associates, Mr. Dimitrov Krishnan, VP & Head Volvo CE India, Dr. K.N. Sathyanarayana, Director at IIT Thirupathi and Subhashis Bash, Marketing Director at Hilti India.



Volvo was the headline sponsor of Demtech 2019. In the picture Dimitrov Krishnan, VP & Head Volvo CE India is thanking the events initiator Mohan Ramanathan.



The Livewire Media Private Ltd team receiving a token of appreciation from PDi Magazine's Jan Hermansson (far right) and Andrei Bushmarin (second from the right).



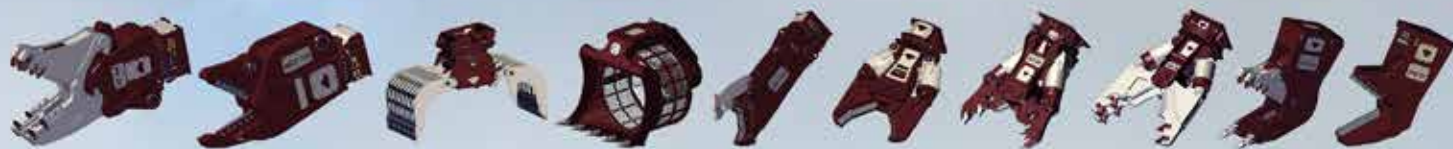
The IDA – Demolition Association board members together with Indian Government representative and special guest and special director general CPWD, Usha Batra. From the left to right: Subramaniam Mohan Raj, Shriram D. Matte, Kannan Paulthurai, Fazrulla Bashra, CPWD Chief Architect, Piyush Gandh, Usha Batra, Mohan Ramanathan, Jigar Chedda and Akhil Jain.

gratitude to these companies for believing in, and sponsoring the event. Initially it was decided that Demtech should have a rather small exposition area, only with small information booths for the sponsors and table top booths for companies that would only like to present their products with documentation. The interest for the exhibition area was so great that the sponsors' were also allowed to exhibit actual products. Besides the 13 sponsors, an additional 10 companies wished to participate with table top booths. These consisted of Trevi Benne, Rotar, Demarec, Schwing Stetter, Hydrotec, Philtec E&C PTE Ltd, SDT Sanwa, Indo-Spark, Terex and Wirtgen Group. We would like to give a big 'thank you' to these companies as well for their support.



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The board of IDA – Demolition Association, from the left: Subramaniam Mohan Raj, Fazrulla Bashra, Akhil Jain, Mohan Ramanathan, Kannan Paulthurai, Jigar Chedda, Piyush Gandhi and Shiriram D. Matte.

The interest from manufacturers, their local operations and contractors, was as mentioned already staggering. We were not sure however how many people would be attending as throughout the summer very few people registered for the conference, either online or by traditional registration. When we approached the beginning of October there were still only around 70 people who had registered, but then something happened, in particular, when the social media campaign commenced. “We really were blasting all social media channels with information about the event and as more and more speakers committed to come, and also additional sponsors and exhibitors, the registered number started to rise, in particular during the last five days before the conference should start. The registered number passed 200 and even on the day before the conference and on the conference day more participants were added so the final

number reached 256 registered participants plus invited speakers and guests,” says Livewire’s Thoufeeque Nihal.

IDA’s first committee meeting

The day before the event, IDA had its first committee meeting where all delegates gathered. It was decided that due to the great response that another Demtech would also be arranged in 2020. However, next year a full exhibition area will be set up including room for live demonstrations. It was decided that it will take place in Bangalore at some date and venue yet to be confirmed in November. The IDA board of directors who made these decisions now consists of eight members, who are: Mohan Ramanathan, initiator and chairman of the committee as well as managing director of ACT, Advanced Construction Technologies Pvt. Ltd, Jigar Chedda, partner Edifice, Shiram D. Matte, director

of Matte & Associates, Akhil Jain, Jain Engineers & Consultants, Fazrulla Basha, director Abcon Concrete Surgeons Pvt. Ltd., Mohanraj, director Rapid Cutting Technologies India Pvt. Ltd., Kannan Paulthurai, director P. K. Cutting Tech Pvt. Ltd and Piyush Gandhi, director Genesis Engineering.

Information rich conference day

The Master of Ceremonies for the event was Lipi Goyal, a well-known MC, model and actor in India. Lipi Goyal made excellent work holding all the threads together during the conference day and the gala dinner in the evening, linking, introducing and all in all, being the glue the event required. The event was formally opened by the event’s special guest, special director general CPWD, Usha Batra, who cut the ribbon and then undertook a visit of the exhibitors’ area. Following

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Suchitra and Mohan Ramanathan hold a plaque of memorandum from PDi Magazine.

Lipi Goyal, well-known Indian MC, actor and model, was the presenter of the event.

this, he then made the opening address. The over 300 conference participants were then welcomed by Mohan Ramanathan and PDi's Jan Hermansson, co-organiser of the event. The opening continued with a blessing ceremony made by Usha Batra, Mohan Ramanathan, Jan Hermansson and delegates of the IDA board committee. The Indian minister of Road & Transport Mr. Nitin Gadkari also sent his best wishes for the event through a video recording.

The conference itself day then commenced with a number of interesting presentations. Dr Gaurac Bhatiani spoke on the subject of the, 'Indian Construction Economy, today and in the future'. Bhatiani explained the reasons for the economic situation right now and gave a forecast for the following five to 10 years. Other speakers were Dr. Shailesh Agrawal, executive director of the governmental agency BMPTC, Dr. Vimal Kumar, secretary general C-FARM and Dr. K.N. Sathyanarayanan, director of IIT Thirupathi.

A number of interesting case studies in the demolition and recycling sector were also presented. Uttkarsh Mehta, partner in the company Edifice, made a presentation on the advanced dismantling of the MG Sethu Bridge, whilst Sunilkumar Vishwakarma, head of planning Tata Projects Mumbai, made a presentation on the making of cross passages in the new Mumbai Metro. Youssef Hallak, head of the Romanian demolition company LT Diamond Cutting, explained decommissioning work undertaken on a nuclear plant in Romania.

The almost 300 attendees also listened to presentations from the sponsors and manufacturers. Prashant Bharadwaj, president of Volvo CE India, explained the advantages of using machines and equipment from Volvo. Gordon Hamback, marketing manager of Epiroc, presented the Epiroc range of demolition and recycling attachments. Martin Goedickermeir and Sheikh Kamal from Hilti spoke on the subject of controlled demolition

using advanced diamond technology. Joakim Furtenbeck from Brokk AB explained the advantages of safe and efficient demolition using remotely controlled demolition robots. Bjarne Axelsson from Aquajet Systems discussed the benefits of using high pressure water as an efficient demolition method, whilst Ratnesh K Singh from Sennebogen presented his company's line of high reach demolition excavators.

After a long day, rich in information, the event was brought to an end following a panel discussion moderated by PDi editor in chief, Jan Hermansson. The panel consisted of Professor N. Gopalakrishnan, Director at CBRI (Roorkee), Mr. Shriram D. Matte, Director at Matte & Associates, Mr. Dimitrov Krishnan, VP & Head Volvo CE India, Dr. K.N. Sathyanarayanan, Director at IIT Thirupathi and Subhashis Bash, Marketing Director at Hilti India. This discussion led to a lively debate between the panellists and the audience who contributed questions about India's potential in



terms of extended demolition, recycling and remediation services.

IDA celebration and gala dinner

At around 05.30 pm the conference part of the day came to an end. Sometimes conferences lose participants the longer the day goes on with Mohan Ramanathan fearing that this might happen with Demtech. On the contrary, it seemed as if more people joined in the longer the day proceeded. So at 7.30 pm, when the inauguration ceremony of IDA and the gala dinner began, the dining room and exhibition areas were crowded with people! Organisers, sponsors and delegates of the IDA joined together in opening the curtain on the new association which was marked by a rain of confetti and long round of applause from the audience.

The next point on the agenda was a moment where the organisers were brought on stage and thanked. PDi Magazine's Jan Hermansson thanked Mohan Ramanathan for initiating Demtech and for all his energetic hard work for making the event happen. Each sponsor and exhibiting company was also thanked, as well as the event planner Livewire Media who did a very professional job in general, with particular mention to the design and structure of the event. The evening continued with music from the entertainer Charles An-



The Indian minister of Road & Transport Nitin Gadkari sent his best wishes for the event through a video recording.





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thony who can sing in more than 10 countries, and an Indian buffet with an open bar. At the end of the party, Mohan Ramanathan even accompanied the musicians in a couple of songs.

Demtech was a true international event with approximately 300 representatives from Indian demolition, recycling and remediation contractors and representatives from manufacturers from around the world. All together people from 18 countries attended the event, with representatives from countries besides India included: USA, UK, Spain, UAE, Japan, Singapore, Netherlands, Switzerland, Germany, Sweden, Romania, Russia, Austria, Italy, Liechtenstein, China and Saudi Arabia

Demtech India 2019 has given the industry in India a taste and appetite for more of this type of event in India. As mentioned, even before this year's meeting began it was decided by the IDA committee to organise Demtech India 2020. This will also be in November in Bangalore, with dates and venue to be confirmed. PDi Magazine will keep you posted.

www.demtech.in
www.indiandemolition.org

Hilti, one of the Associate sponsors, received, among many others a plaque of appreciation for supporting the event. From the left Moan Ramanathan, Professor Martin Gödicke, Head of Hilti Diamond Tool Technology, Subhashish Bash, Marketing Director at Hilti India and Jan Hermansson, Editor-in-Chief of PDi Magazine.

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LOADER ZONE

It's the rare contractor these days who doesn't need help on the jobsite, particularly when it comes to skilled labour. Though industry trade groups and educators are doing their best to lure more young people into construction, the results of those efforts may well take several years to produce results.

This is but small consolation for tackling today's needs, but fortunately, equipment manufacturers continue to build new machines with features designed to help contractors make the most of the labour they do have available. This year's report on compact loaders and skid steers, for example, contains new and upgraded models suitable for all applications and needs, particularly the paramount priorities of productivity and profitability. If 2020 is the year for making a wise investment in new equipment, these products are a good place to start.

Komatsu Europe launches WA80M-8 compact wheel loader

The all new Komatsu WA80M-8 compact wheel loader is said to deliver first class operator comfort, optimum visibility, outstanding safety levels, an ergonomic interface, effortless operation, a new 40kph high speed option, and a bold contemporary styling for a strong distinctive visual presence. With an operating weight of 5,995kg, the WA80M-8 is optimised for tough construction applications with a powerful Komatsu S4D98E-6VHA 53.7kW low emission engine that complies with EU Stage V regulations. With high rimpull, superior breakout power, high lifting and dumping height, as well as enough reserves for even the most difficult ground conditions, the WA80M-8 also features low fuel consumption.

The operator is also able to rely on 'Easy Fork' kinematic to transport loads with Komatsu pallet forks parallel to the ground without readjusting the fork tines and a 6,000h cleaning interval typically makes the DPF maintenance free for 10 years. For maximum operational safety, the machine's low centre of gravity enhances stability with its compact dimensions and new engine hood ensuring exceptional all round visibility. A new large and multifunctional high resolution TFT-LCD widescreen colour monitor has 15 built in languages and improved ergonomic controls include a PPC multi-function lever for easy operating. The optional air conditioner and 'Electronic Controlled Suspension System' (ECSS) further assist comfort and productivity.

All maintenance and service actions can be performed easily and quickly thanks to the tilting cab, with the engine hood opening widely for quick daily inspection, with the electric equipment being well protected behind a maintenance cover. The 'easy to clean' wide core radiator, with an optional reversible fan and is readily accessible. A compartment for the battery, mains switch and relays further improves maintenance access to the electrical system.

www.komatsu.eu



Cat's new D3 builds on D and D2 Series' reputation

Caterpillar has announced the release of 16 new Cat D3 Series 'Skid Steer Loader' (SSL) and 'Compact Track Loader' (CTL) models. These new machines build on



the D and D2 Series' reputation for quality, comfort, and performance and deliver improvements in operator experience and track loader stability. Entering and exiting the new D3 Series loaders with enclosed cab is now easier thanks to a wider opening cab door, and, additionally, the distance between joystick pods has increased by 76mm, offering extra space for the operator inside the cab to deliver a more comfortable experience.

All Cat D3 Series CTL models feature standard two speed travel to improve performance on the jobsite. The machines are geared to deliver high torque digging performance, as well as high top end speed for travel. The powerful Cat 279D3 and 289D3 loaders boast a 13.6kph top end ground speed, a 20% increase over their D Series counterparts. The Cat 239D3 and 249D3 models are now built with two speed transmission as standard, versus the previous single speed, increasing travel speed by 9% and aligning the models with the rest of the two speed equipped CTL model range.

The D3 Series Cat SSL and CTL models deliver 'Smart Technology' that ushers in a higher level of integration between the machine and new 'Smart Attachments'. This technology allows the D3 Series SSL and CTL models to automatically recognise Smart Attachments and convert machine controls to align with the operational and informational needs of that attachment. Cat SSLs and CTLs also offer advanced control features that include 'Return to Dig' and 'Work Tool Positioner' to assist operators with repetitive tasks like grading, digging, and loading. These items are now bundled together with the dual direction self-level feature. In conjunction with the D3 Series introduction, the previous XHP performance model identifier used with the 272 and 299 models has been replaced by the XE marque.

Bobcat launches new Stage V M-Series loaders

Bobcat has launched new versions of its M-Series S450, S510, and S530 models, the first in the range to feature a specially developed Stage V compliant Bobcat engine. The new loaders are said to provide operators with increased performance, enhanced comfort and optimised maintenance requirements to maximise job site efficiency while preserving a compact size for work in tight spaces and easy transport.

The new Bobcat engine provides 37% more torque and fast recovery from overload when compared to the previous machines, meaning that the operator can work with the same power at lower RPM, at lower noise levels with lower fuel consumption. In addition,

with an engine equipped with a diesel particulate filter (DPF) as standard, users can work in emission regulated zones such as city and town centres. A new high flow hydraulics option for the S510 and S530 Stage V models also allows the use of higher flow attachments such as sweepers, planers, and wheel saws, with a new air conditioning option available for the S510 and S530.

The new Stage V loaders now feature the previously optional 'Deluxe' control panel as standard, offering a choice of different languages and telematics to protect machines and to monitor their performance. Bobcat has also extended the choice of factory installed tyres for the three models, ensuring they can be more closely matched to customers' applications right from the start. The cab on the new loaders is radio ready with a 12V power outlet for charging mobile phones and other devices, a cup holder, added storage compartments and new full colour instrument panels. All three skid steer loader models offer a two speed option that boosts the maximum travel speed from 11.4kph in low range to 17.3kph in high range. The hydraulic bucket positioning option keeps the loader bucket level as the lift arms travel upward, enabling operators to spill less and work faster.

Bold new styling for Bobcat's 'One Tough Animal' brand

Bobcat has introduced a new brand identity which reflects the company's iconic 'One Tough Animal' message which aims to more powerfully represent the core qualities of Bobcat equipment. At the same time, the new look unifies and strengthens the visual identity of all Bobcat product lines, with the new styling now more modular and readily applied to machines of all different types and sizes. As the first step of implementation of the new branding, the machine design element of the new scheme was used on the 2t to 4t R Series mini excavators launched last year. New styling decals have now been added and are being launched to complete the new brand identity.



Sherpa's two speed evolution

A refined concept and user input makes Sherpa's 100 two speed mini loader a true evolution of the company's 100 ECO. As the name suggests, the machine has two speeds, one with more power to manoeuvre and work and a second gear to cover longer distances with a higher speed. The loader is designed with two hydraulic pumps, which may be operated while driving, and is equipped with 127mm full rubber wheels as standard.

www.sherpaminiloaders.com

Doosan to debut DX42-5 mini excavator at World of Concrete 2020

Doosan Infracore North America, LLC, will launch its DX42-5 mini excavator at the 2020 World of Concrete show in Las Vegas. This is a conventional tail swing mini excavator in the 4t to 5t class, featuring a strong bucket breakout force and impressive dig depth and reach. Its relatively narrow width provides operators greater ability to navigate through doorways, gates and other obstacles. The machine comes as standard with an enclosed cab with heat and air conditioning as well as an optional open canopy configuration. Both configurations allow for excellent all around visibility, especially to the excavator's attachment. A standard suspension seat provides 'all day' operator comfort, while a strategically positioned deluxe instrument panel provides operators with valuable machine information. A standard keyless start system helps to reduce unauthorised machine use and prevent theft on jobsites.

In addition, DX42-5 owners can choose a standard arm or a long arm option. The latter gives operators more dig depth, reach and reduces the amount of machine repositioning for enhanced productivity. A blade comes as standard with the DX42-5 and an angle blade is available as a factory option for enhanced backfilling and for creating swales. The mini excavator can also be equipped with a quick coupler, bucket and thumb attachment package.



Mustang by Manitou 1350RT compact track loader

A new small frame track loader from Mustang by Manitou brings a 612kg capacity option to customers in North America. It features an intuitive single joystick control, Level II FOPS and a low maintenance engine for jobs from the construction site to the backyard. The 1350RT has compact dimensions with an overall width of 1,448mm, height of 1,930mm, and a lift capacity of 612kg at 35% tipping load. It features a 34.7kW Yanmar engine that utilises automatic regeneration and zero fuel additives, providing clean emissions with little to no ef-



fort from the operator. Built on the proven design of the 1350R skid loader, the 1350RT track loader provides superior weight distribution, stability and tractive effort. In addition, the cab forward design of the 1350RT has excellent visibility on all sides of the machine, allowing precise material placement.

The 'IdealTrax' track tensioning system on the 1350RT saves on maintenance and track replacement costs by automatically tensioning the tracks when the engine is on. This process eliminates the chance of over tensioning and extends the life of the tracks by up to 15%. Track tension is released when the engine is turned off, reducing strain on sprockets and bearings. With the system there is no need to manually tension the tracks, making changes on the jobsite quick and simple. In addition, the 1350RT provides versatility on the jobsite with an exclusive 'Multi-Tach' attachment mounting system that is compatible with most allied track loader attachments. The 1350RT is customisable with additional features including a fully integrated back up camera and a 'HydraGlide' system for a smoother ride and less material loss. An additional self-levelling option keeps the attachment level while the unit is performing the lift function.

www.mustang-by-manitou.com

ASV offers new machine packages

ASV has introduced base and premium level configurations for its mid-sized 'Posi-Track' loaders. The options make ASV's innovative, productivity boosting compact track loaders more accessible to rental companies, homeowners and all sizes of businesses involved in landscaping, construction and snow removal. Both configurations allow operators to use ASV's trademark power and performance to do more work in more places.

Customers are able to choose between base and premium versions of the RT-65, VT-70 High Output, RT-75, and RT-75 Heavy Duty Posi-Track loaders. The



premium configurations include additional productivity and comfort features to allow operators to get more done during long work days. The base models come with ASV's high levels of power, performance, and reliability that customers have come to expect from the company. All Posi-Track loaders are backed up with ASV's new two year / 2,000h warranty, which covers the tracks for the entire period and includes what is said to be the industry's first and only no derailment guarantee.

www.asvi.com

John Deere upgrades G-Series skid steers and compact track loaders

John Deere has added to its line of five small frame G-Series skid steers and compact track loaders, providing operators with even more options for the job site. Whilst the five models (312GR, 314G, 316GR, 317G, and 318G) were introduced to the market more than three years ago, John Deere has continually worked with its customers in the landscaping, agricultural material handling and construction industries to better understand their needs and how to improve machinery for maximum productivity, uptime and solutions.



The improved small frame G-Series machines feature increased productivity and time saving options. They can be equipped with an optional rear view camera and easy to clean cab windows for additional visibility, safety and speed on the job site. The upgraded cab offers more comfort so operators can easily manoeuvre the machine and remain in the cab for longer periods without sacrificing performance. The small frame cabs also include a new Bluetooth radio option, and the redesigned manual control levers have improved ergonomic grips for increased operator comfort and accessibility. Other upgrades include protected auxiliary hydraulic lines that run within the boom for additional protection, ultimately extending the machine's life cycle. The machines have an optional capability to support two sets of counter weights, providing the operator with greater stability and capacity to lift heavier materials. The newly integrated four point tie down system increases overall mobility and impact on different jobs by enabling operators to securely and safely move the machine to different locations.

Also from John Deere is a new high lift option for the 344L compact wheel loader which offers operators increased height and further reach for dumping or stacking, material handling, general construction

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www.toptec-germany.de

work, landscaping and snow removal tasks. With a maximum hinge pin height of 4m, the high lift option offers an additional 2.9m of reach compared to the standard version. The 344L comes equipped with the 'Articulation-Plus' steering system, enabling operators to maximise productivity with the ability to move faster and increase lifting capacity when moving or placing materials overhead. When equipped with a quick coupler and bucket, the full turn tipping load on the 344L high lift option is 4,700kg, allowing operators to confidently lift heavy weights overhead. The 344L's stability and manoeuvrability, combined with 76kW of maximum peak power, enable operators to deliver big results.

New grading attachments for John Deere skid steers and compact track loaders

Helping compact equipment operators improve productivity and machine versatility, John Deere has added new 1,829mm, 2,134 mm, and 2,438mm models to its referral attachments line, 'Level Best'. The new grade control ready Level Best Dual Mast PD Series box blades improve productivity on John Deere skid steers and compact track loaders. The box blades are available in 2D precision grading and 3D precision grading options. The 2D series comes ready to produce precise 2D grading by working seamlessly with laser transmitters, with the system automatically adjusting the elevation by controlling the lift and tilt of the attachment to maintain vertical accuracy and smooth grading performance. The grading box system adjusts dozens of times per second to ensure a smooth grade with tight tolerances making it ideal for precision grading.

The system has been designed to take advantage of the 'push-pull' directional work style of skid steer loaders for maximised production. The PD Series is made specifically for skid steer loaders and compact track loaders, with a unique frame design giving operators exceptional control, efficiency and smoothness. This minimises the potential 'bounce' effect often experienced in skid steer loaders due to the short wheelbase. For jobs that demand 3D grading, Level Best grading boxes come ready to be used with Topcon GPS, robotic total stations or sonic technology. The grading box comes installed with the cables needed to work with Topcon 3D GPS. This allows customers to use the Topcon GPS systems they currently use on other machines, whilst the main components can be installed on the grading box for a plug and play solution.

Gehl RT255 Pilot Series track loader now available in North America

The new Gehl RT255 Pilot Series track loader is now available at dealerships across the US and Canada. Featuring a seat mounted joystick, automatic track tensioning and top rated hydraulic flow rates, the Gehl RT255 aims to deliver maximum performance and versatility on the jobsite. This model also has one of the highest standard auxiliary hydraulic flow rates in the industry at 110l/pm, with an option for 142.7l/pm with high flow. A higher rate of flow allows faster cycle times, making the Gehl RT255 a highly efficient machine. Operators also have access to more attachments, making it ideal for applications such as landscaping where an operator is often switching between buckets, tree spades, and augers.

The RT255 is powered by a 55.4kW Deutz four stroke turbo engine with 329Nm of torque. It has an operating capacity of 1,157kg at 35% tipping load, and can lift up to 3.3m. In addition, a custom designed undercarriage provides enhanced stability, grading, tractive effort and ride control. It is equipped with Gehl's 'IdealTrax' automatic track tensioning system which reduces maintenance and track replacement costs by ensuring



proper track tension upon engine start up and during operation. Tracks are not over tensioned and there is less strain on sprockets and bearings, which increases the life of the tracks by up to 15%. Track changes in the field are also quick and simple with automatic tensioning.

'HydraGlide' is another feature found on the Gehl RT255 track loader, providing a smoother ride with less material loss. The lift arm 'floats' while transporting loads, and additional self-levelling keeps the attachment level as the operator raises and lowers the lift arm. Optional features on the Gehl RT255 Pilot Series track loader include a fully integrated rear view back up camera, 'IdealAccess' fold up door and 'Easy Manager' telematics.

www.gehl.com

Wacker Neuson's new Series II large frame skid steers and compact track loaders

Wacker Neuson's Series II large frame loaders include two skid steer models (SW) and two compact track loaders (ST). All models are powered by a 55.4kW Kohler diesel engine and offer standard auxiliary hydraulic flow of 83.6l/pm with optional flow of 120 l/pm. As the 'big brother' to the company's medium frame line, the machines offer parts commonality and a proven design for the job site. The new large frame loaders offer a cab that fully tips forward with the loader arms down, providing complete access to all maintenance components. The machines are engineered to be user friendly with a simple open design and efficient layout that requires less time on daily service checks meaning more time on the job. The Kohler diesel engines feature a maintenance free, regeneration free after treatment system, eliminating the impact of extreme heat and downtime due to regeneration or the need for cleaning particulate filters.

The SW and ST loaders have many comfort features including repositioned joysticks that promote intuitive and comfortable operation. The high visibility cab includes angled pedals and foot bed, as well as conveniently located switches that significantly reduce operator fatigue. Access in and out is easy with a wide door and step, plus there is no restrictive lap bar. Control options for the operator include mechanical hand-foot (SW models), electric hydraulic (EH) hand-foot and selectable EH (ISO and H-pattern). The vertical lift



models are said to offer class leading hinge pin height and all models feature a 151l fuel tank, with an optional 189l version for track loaders, giving operators more time in the cab and less time spent refuelling. All models also feature a variable speed cooling fan that provides on demand cooling of the engine, which maximises efficiency, improves fuel economy and assists in cold starts.



SVL65-2 is Kubota's lightest and most manoeuvrable compact track loader

The new SVL65-2 features an 'Advanced Multifunction Valve' (AMV) that provides smooth operation when using simultaneous functions, such as auxiliary, boom and bucket circuits, allowing operators to be more productive throughout their work day. With the AMV, the SVL65-2 makes running any attachment that utilises auxiliary hydraulics easier, especially when using attachments such as grapple buckets, four in one buckets, and hydraulic augers. Powered by a 50.7kW engine, the SVL65-2 boasts a wide working range including a rated operating capacity of 952.5kg at 35%, or 1,361kg at 50%, a reach of 886.5mm, and a hinge pin height of 3,010mm. A standard self-levelling feature can be engaged with the flip of a switch and keeps the bucket or forks level without the need to manually adjust the angle on the way up. Multi-function levers provide fingertip control of all major vehicle and attachment operations.

While the overall footprint on the new SVL65-2 is smaller, the cab is equivalent in size to Kubota's SVL75-2 and SVL95-2. A wide door opening allows for easy and safe entry and exit. Consistent with the larger models in Kubota's SVL Series, the SVL65-2 features an easy open sliding front door that can be opened regardless of the position of the bucket or loader arm; plus, full machine operation is possible with the door open, if desired.

www.kubota.com



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"This multi angle internal pipe saw is set to change the way pipes are cut", says the inventor Paddy Brosnan.

A true game changer for **PIPE CUTTING**

Paddy Brosnan, founder and director of Australian concrete cutting company, Extreme Cut Services, has developed an interesting innovation for cutting concrete pipes, which he claims is a 'a real game changer'.

Anybody working in cutting concrete knows that pipe cutting is difficult and time consuming. Two years ago, Paddy Brosnan, founder and director of Australian based concrete cutting firm, Extreme Cut Services, was driving home from work and noticed hundreds of pipes by the side of the road where a new major road and sewer line was being constructed. Having cut these types of pipes before, he knew how labour intensive it would be for someone stuck in the trenches cutting these pipes. He thought there had to be a safer, quicker and easier way to cut pipes, and a better way of cutting angles.

A two year design journey

A born problem solver, Paddy couldn't drop the idea that there had to be a way of developing a safer, more efficient, automated and environmentally friendly way of cutting pipes. He did a lot of research to see what was already available and what demand there might be for something new. A two year journey began which saw the design and build of a working internal pipe saw prototype. In early November 2019, Paddy's patent application number came through so he can now raise awareness about the saw's features and benefits. "It's been a long time since I've seen innovation and automation in pipe cutting. I have used my 40 years of experience in mechanical engineering, as well as cutting and drilling, to produce an internal pipe saw that provides tangible benefits for operators and project outcomes. The unique feature of my new internal pipe saw is its ability to cut pipes at any angle up to 45°. It is also highly versatile. By fitting different diamond blades it can cut concrete, steel, ductile iron and refractory lined pipes. The one machine can do it all. This is a real game changer," says Paddy. To date, Paddy has performed numerous successful tests on

the working internal pipe saw prototype. The saw can be used in a variety of applications making it a highly attractive proposition for an equipment manufacturer. The potential industries that could use this saw include civil contractors, pipe layers, pipe manufacturers, piling demolition companies, concrete cutting companies, equipment rental companies and so forth.

Increased safety

Paddy is passionate about improving operator safety and in the next few years, he believes safety will be a major issue for concrete cutters. He knows a lot of people in the industry who had injuries from handsaws, the traditional way of cutting pipes. He believes removing the operator from the spinning blade will be a huge improvement in safety. Being remotely operated, the internal pipe saw will directly lead to a reduction in cutting injuries, manual handling injuries and direct exposure to toxic dust/mist which will ultimately reduce long term health issues. This is good news for business owners as this reduces their liability. Paddy is keen to reassure operators that the internal pipe saw is not designed to replace operators as it requires set-up and operation. However, the internal pipe saw makes the job safer, easier and quicker. If an operator can use a handsaw they will be able to easily operate the internal pipe saw.

Many advantages

In addition to cutting multi angles up to 45°, other key features of the internal pipe saw include its ability to cut pipes from 900mm up to 3.2m in diameter. It is also faster and more efficient, cutting pipes in just minutes. It is less labour intensive than handsaws as it allows cutting with one set up—there is no need to turn

or reposition the pipe. It cuts clean and accurate first time so there is no need for grinding or patching rough edges. The internal pipe saw can even cut sub marine pipes and hollow piles below the silt line. The transportable modular system can fit through a 600mm manhole. Designed to be versatile, a plasma cutter can be fitted to cut metal pipes. Paddy is so confident in the internal pipe saws ability, he is currently working on a smaller model capable of cutting 450mm diameter pipes.

While Paddy believes that the new internal pipe saw will improve the industry it is not feasibly for him to go into production. Instead, he is seeking expressions of interest from equipment manufacturers around the world looking to acquire a new and innovative prototype, designed to fill a gap in the pipe cutting market.

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Brokk has introduced the new Brokk 70.

NEW

Demolition Robots in 2019

PDi takes a look at the new Akula DR range and Brokk 70 remote controlled demolition robots launched in 2019.

UK based ES Robotics has recently launched a series of brand new remote controlled demolition robots ranging from 1.5t to 8.5t, said to be the first in the world to have both diesel and electric power. According to the manufacturer, they follow many years of development followed by two years of field testing to get the new robots ready for market. The range consists of four models, DR125, DR300, DR450 and DR850, all marketed under the brand name 'Akula'.

Further to being the world's first dual power demolition robots, ES Robotics claims that the new models have several advantages over its competitors, especially regarding more reach and power, as well as the reduced weight of the bigger models. For example, the company says that its Akula DR125 is shorter than its similarly sized competitor Brokk 170 – both weigh 1,600kg – but has more reach and power. Its biggest model, the DR850, is nearly 2,500kg lighter than the Brokk 800 in either the diesel or electric version, but has the benefit of substantially more reach and dual power.

All the machines feature the option to switch easily between diesel and electric operation, with the diesel power unit provided by the latest Kubota water cooled engine. The robots also include a three piece boom and offer significant digging capabilities. According to the company's managing director, Chris James, there is significant and impressive interest from many players in the demolition business for the new dual power demolition robots.

Brokk 70

Brokk has this year introduced the new Brokk 70. This new model is the said by the company to be the ideal solution for bringing safe, mechanised and efficient demolition to the most confined spaces. Compared to its predecessor, the Brokk 70 comes with innovative Brokk 'SmartPower' technology, as well as a powerful and fine-tuned hydraulic system. The innovative Brokk SmartPower electric powertrain increases power from 5.5kW to 9.8kW and enables the demolition robot to power twice the size breaker as its predecessor. Taken together, this leads to a 100% increase in demolition power over its predecessor, the Brokk 60.

The combination of Brokk SmartPower technology and Brokk's upgraded hydraulic design has also led to both smoother and more precise movements, making the new robot smoother and faster to operate than ever before. Furthermore, the stronger hydraulics and completely redesigned mechanics of the machine enables it to carry and wield heavier and more powerful (many new) attachments. One such brand new attachment is the new Brokk BHB105 breaker which weighs in at over 100kg and comes with advanced features such as water spray to suppress dust and air cooling

for work in a hot environment. Another new attachment is the Brokk BDC40 drum cutter which is said to bring real cutting power to the smallest segment of the demolition robot market for the first time, whereas the new Brokk G32 demolition grapple is ideal for more efficient soft demolition.

Despite all these new features and customer benefits, the Brokk 70 has the same extremely compact dimensions as its predecessor. The additional power and technology comes in a package that weighs only 560kg, fits through the narrowest doorways and can be transported in an ordinary passenger elevator. Finally and very importantly, it still runs on only a 16A fuse.



The Akula robots also include a three piece boom and significant digging capabilities.

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Kemroc helping to make small scale road repairs 'in house'

Long term repairs to poor road surfaces can be carried out by milling damaged areas and replacing the material with hot mixed asphalt. An excavator with a milling attachment has been found to be the ideal tool for repairs to smaller areas of road surfaces.

As in other areas of the Black Forest region, the Road Maintenance Department at Gernsbach are fighting a continuous battle to maintain road surfaces in areas at high altitudes affected by frost damage causing potholes. Additionally in the more temperate areas along the Rhine valley, the department must contend with cracks, ruts and surface distortions caused by heavy traffic. In the past, damaged surfaces underwent several short term repairs which consisted of simply covering the damaged area with cold mixed asphalt and occasionally, painstakingly using compressors and pneumatic hammers to remove material before resurfacing.

Today, repairs are much quicker, more cost effective and require less manual work, as the towns of Gernsbach

and Bühl, as well as the Rastatt District Council purchased a 6t compact excavator fitted with a Kemroc EX 30 HD patch planer. This equipment is shared between teams from each town to make cost effective repairs to relatively small areas of road surface. After delivery, the equipment was firstly given to Manuel Weller, the senior engineer responsible for the maintenance of approximately 280km of major, rural and suburban roads in the area around Gernsbach for evaluation.

All patch planers in the Kemroc EX range can be used on suitable carriers for the milling of either concrete or asphalt road surfaces. In contrast to the use of compressors and pneumatic breakers, the accurate depth control feature on EX patch planers allows the operator to remove a well-defined surface layer without damaging the material below. This provides the ideal conditions for long term, high quality repairs to road surfaces. The EX 30 HD has a planing width of 300mm and a steplessly adjustable depth range from 0 to 120mm. At the same time he saw the equipment being demonstrated, head of road maintenance Mr Weller was impressed by the power of the hydraulic motor: "I wasn't expecting so much power from such a small planer."

In Germany, the repair and maintenance of road surfaces must be carried out according to ZTV BEA StB regulations, in which surface milling is classified as a preparatory operation. However, these road building regulations mainly refer to repairs carried out by self-propelled road planing machines. For most road maintenance departments, these machines are too large and not cost effective for small scale road repairs. In many cases, carrier machines such as excavators or compact loaders fitted with a patch planer attachment are more flexible. "With our equipment, we have the capability to repair small road surface areas in-house efficiently and economically. In the past our repair teams needed many hours using compressors and breakers only for surface preparation work whereas today we achieve a complete repair in half a day," says Mr Weller.



Sorting and recycling in Imatra, Finland

Konepeikko Oy has trusted Dynaset HMG Pro hydraulic magnet generators for many years. Its trucks are equipped with generators, constantly working on material collecting around Finland and at the company's headquarter in Imatra. Currently three trucks and two material handlers are equipped with the HMG Pro, converting the hydraulic power of the machines into magnetic power. Mobility is the key in the collection and recycling business, with the compact HMG Pro having been installed into the trucks' tool boxes taking minimal space. Furthermore, they have the world's fastest demagnetizing time with their robust structure providing the HMG Pro's with fast and efficient magnetic operation.

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SCRAP SHEAR SHOWDOWN

The development of the scrap shear was pioneered in the US in the 1980s by such giants of the excavator attachment industry as Roy Labounty and Bruce Bacon. Since its inception, the shear design has gone through a number of iterations before acquiring its current look. Today's scrap shear is a staple item in every respectable attachment supplier's arsenal, with European and Asian manufacturers steadily gaining ground on their North American counterparts. PDi's Andrei Bushmarin presents the latest updates in the scrap shear market.

The FS145 - a new kid on the ShearCore block

Based in Superior, Wisconsin, ShearCore has introduced this year its new FS145 mobile shear, the largest in the company's product line of attachments for the demolition and scrap recycling industries. Lead designer, Ross Christenson says about the new model; "The FS145 shear has been designed with less welds, fewer pieces, and is structurally stronger." Bruce Bacon, president of the Exodus Group, states: "The new FS145 shear model is the culmination of the company's design policy of, 'begin every design with a foundation in experience and a desire to improve'. This shear model exemplifies that policy with a new tip design to handle the massive force this shear delivers. A new 'shark fin' rear lug design transfers stress in a new and improved method over any previous design in the mobile shear world, which allows higher forces to be distributed over greater mass. What this means to the customer is that this shear punches above its weight class; a big advantage in the steel processing world." Weighing in at 12.7t, the rotating FS145R has a jaw opening of 1.2m and a reach of 4.5m. The minimum excavator boom mount is 65.7t while the minimum stick mount is 113t. The FS145 is also available as a non-rotating model. The FS145 now brings ShearCore's Fortress mobile shear range to eight models. The Fortress line also includes the concrete processor 'cracker' series.

www.shearcore.com

LaBounty expands 'Legend' series

Starting April 2020, US based trendsetter in scrap shears LaBounty will start rolling out four new Legend models. The new shears are equipped with the full protection indexable piercing tip, 'Dual Max Indexable Protection', which defends the shear from wear, reduces the need for

maintenance and hence any downtime. The Legend's jaw design also produces up to 10% more cutting force than previous offerings. The attachments feature the 'InSite' advanced telematics platform that provides actionable information about the shears' condition and activity, such as job tracking, jobsite mapping and remote diagnostics. With the InSite app, available for iOS and Android, users have access to valuable information in order to optimise shear performance.

www.stanleyinfrastructure.com



MT series from Allied-Gator

Allied-Gator Inc., another US based player, has been providing innovative hydraulic attachments for the scrap and demolition industries for over 40 years. Currently its MT 'Multi-Tool' series includes 11 sizes, ranging from 363kg to 23,600kg, that all utilise interchangeable jaw sets. The MT 'Quick-Change' 'Shear', 'Cracker/Crusher' and 'Densifier' jaw sets ensure versatility. The MT delivers high levels of power due to its patented 'Power-Link and Guide' system, with versatility and power being further enhanced by the proprietary 'Serrated Gator Blades' designed exclusively for the MT mobile shear. These blades are said to outlast conventional shear blades by up to 50% when processing general scrap, and up to 90% when shearing steel wire and cable. As Allied-Gator moves into the future, it will be interesting to see how the MT's innovative technologies and proprietary design features can help scrap or demolition operation become more productive and profitable.

www.alliedgator.com





New Demarec DXS mobile shears with 'DemaPower' 2.0 cylinder

The brand new Demarec DXS-40 and DXS-50 mobile scrap shears are engineered to deliver high cutting force and optimal performance to weight ratio thanks to patented DemaPower 2.0 cylinder technology. Unlike a conventional cylinder technique utilising two oil chambers, DemaPower 2.0 technology is based on four cylinder chambers, two way oil regeneration for open to close operations in combination with high shearing forces, which results in very fast cycle times. The DemaPower 2.0 system generates 25% more power which results in a closing force equivalent to that of a shear one or two sizes up. The speed valve works in two directions during opening and closing. If the jaw senses resistance during closing, the valve switches from 'speed mode' to 'power mode' and the full cylinder force from the DemaPower 2.0 cylinder becomes immediately available. According to the Dutch manufacturer, the DXS shears deliver up to 20 -30% more performance than rival brands, whilst reduced fuel consumption is another benefit of this solution. The DXS-40's and DXS-50's other remarkable features include a powerful swivel to avoid high oil temperature and ensure high working speed, with the patented 'DemaSafety System' protecting the cylinder against excessive pressures (above 450 bar) on the rod side of the cylinder.

www.demarec.com

RSS range from Rammer

The Scrap Shear Range (RSS) from Finland based Sandvik company Rammer, comprises of nine models, fitting 4t to 90t carriers. Manufactured from wear resistant HB400 steel, the shears feature hydraulic rotation, rotation protection, heat treated pins and bushings as well as weld free cylinder rods. All new models are equipped with a speed

valve for improved cycle times, whereas a smart jaw design allows the material being cut to fall away from the cutting area, thus enhancing performance and increasing uptime. A central pin adjustment system helps prevent jaw deviation to maintain maximum cutting performance. This system has been proven to reduce operating costs by minimising the amount of material stuck in the jaws.

www.rammer.com



Hydraram rolls out the 'Terminator'

Netherlands based Hydraram has recently shipped the first units of its newly developed HRS-27T scrap shears to customers in Germany and Australia. The letter 'T' in the model designation stands for 'Terminator', which speaks volumes about the shear's power and efficiency. Weighing in at 2,680kg, the new model boasts a jaw opening of 855mm and delivers high cutting force. Due to the combination of wide jaws and relatively low weight, this model is ideal for mounting on long front excavators. Made from Hardox 'Hituf' steel, the shear is equipped with two hydraulic motors, two reversed cylinders and a double bearing slewing ring. With a working pressure of 350bar and an oil flow of 250-350bar, the HRS-27T fits 23t to 34t machines or long front excavators which can carry a weight of up to 3,000kg. With a cutting force of 120t at the tip and 540t in the middle of the rear blade, the shear is capable of cutting 600mm x 300mm I-beams with thicknesses of 12mm x 17mm.

www.hydraram.com

Green Attachments presents the 'Yellow' scrap shear range

Finland based supplier Green Attachments now offers the 'Yellow' SH range of scrap shears consisting of 11 models to fit 7t to 130t excavators. Intended for heavy duty applications, the shears are manufactured from wear resistant steel. Long reversible blades allow the cutting of big beams while optimum kinematics helps keep steel objects deep inside the jaws where the pressure is at its maximum. An optional speed valve is available for increased performance, whilst bolt on piercing tips make maintenance easy and have adjustable cushions for precise and reliable movement. Axles are hardened and greasing points have been designed in a way to make maintenance easy. A heavy duty pivot pin adds strength and durability, with changeable oversized steel bushings helping extend the shear's service life. Hydraulic rotation



simplifies the positioning of the tool as is essential when the shear is used for material sorting. Rotation is provided by the orbital hydraulic motors with a planetary gear and double pressure relief valves. The shears have a removeable maintenance cover to shorten service time.

www.greenattachments.com

BPH features 14 model 'Prodem' range

Based in West Sussex, UK, BPH is a specialist supplier of excavator attachments under the brand name Prodem. Developed for working in the toughest demolition and recycling environments, the Prodem shears feature a bolt on piercing tip and blades. Thanks to an innovative speed valve, a reduction in cycle times regenerates power and protects the shear by eliminating internal oil pressure peaks. Twin upper jaw guides make for precise alignment, increasing cutting power and efficiency. The shear's cylinder is accessed via bolt on access panels, making it easy to service and maintain. A weld on upper jaw



protection system reduces maintenance and build-up on the upper jaw, thereby reducing downtime on site. The smart design also reduces stress and wear to the upper jaw with the blades being able to be turned up to four times before they need to be replaced. Available for purchase or hire, the Prodem dedicated shear range includes 14 models to fit excavators weighing between 3.5t and 310t.

www.bphattachments.com

VTN makes a 'revolution' with CI series

Italy based manufacturer VTN Europe has expanded its CI series of scrap shears with the addition of four new models: the CI8000 R, CI10000 R, CI15000 R and CI20000. The letter 'R' in the model names stands for 'revolution' or 'rotation'. The new shears benefit from an improved design and the use of special steels allowing the frames to withstand high loads. Other highlights include an inverted cylinder and a piercing tip with a special fastening system to increase wear resistance.

www.vtneurope.com



New remote control increases safety and reduces costs on London demolition site

The UK's first Bobcat remote control compact loader has increased safety and reduced costs on a major demolition contract in London. Purchased by BooBoo Plant Hire, and supplied by Bobcat of London, the remote control S450 skid steer loader is working on a top-down demolition project. This is being undertaken by Kent based Erith, and is involves the removal of a former wing of the Whittington Hospital in Upper Holloway in North London.

Bobcat of London supplied the S450 with a kit for the Bobcat remote control system. The new S450 forms part of a fleet of Bobcat machines purchased from Bobcat of London by BooBoo Plant Hire that are being used on a contract for the supply of specialist equipment for a London demolition project. The remote control aims to increase safety, comfort and productivity by distancing the operator from dust, noise, vibrations and other hazards encountered on job sites that require special safety precautions.

Harry Allen, owner of BooBoo Plant Hire, commented: "With the number of injuries on sites increasing again, maintaining maximum safety is paramount.



I believe remote control is the way to go in the future in our industry – it's a no brainer really – so I was very interested in the excellent demonstration provided by Phil Stoneham at Bobcat of London.

"As well as increased safety, the remote control saves costs by removing the need for a banksman as a lookout for the machine, a prerequisite now on many sites. Banksmen are necessary to help avoid collisions of

machines with other workers on site, which after falls from height is one of the major causes of accidents and injuries. So instead of the contractor having to pay for both a banksman and the loader driver, these are both replaced by the operator on the remote control system. On top of that, they do not have to pay for pensions, holiday pay and other associated costs, providing further savings."



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Portugal based Secil Britas S.A. main activities are in mining, quarrying and aggregates, providing materials for the company's activities and cement factories. Since gypsum is a key component in cement manufacture, the company's gypsum mine exclusively meets the group's needs, with a Volvo EC360 excavator using an Epiroc HB 2500 hydraulic breaker proving ideal for its needs. This features a self-priming lubrication device, a dust protection sealing system and an intelligent protection system, which have been integrated into all Epiroc heavy duty hydraulic breakers as standard since 2018.



Maximum safety in quarries

In the Lázaro Echeverría quarry in Spain, a stabilisation operation was initiated on one of the fronts following consultations with Epiroc. This saw an ERC 2000 drum cutter being used mounted on an excavator to mill some sections in order to stabilise them. The management of the quarry have been so impressed by the efficiency of the ERC 2000 that it was decided to use it for other tasks including front profiling, finishing off access tracks and so forth. Veman S.L., Epiroc's distribution partner, will continue to provide customer service, maintenance and act as a strategic supplier to Lázaro Echeverría SA.

With models suitable for carrier machines up to 70t in weight, ERC transverse milling machines are a productive choice for profiling surfaces, rock walls or concrete walls, as well as for demolition and excavation of soft rock and frozen soils. All the milling machines in the range are equipped with integrated 360° hydraulic rotation for optimum precision and good handling, enabling maximum productivity in demanding applications.



Providing benefits

Limited space, time pressure, and often, challenging building layouts are the most common characteristics of downtown demolition projects. Factoring in occupational safety and efficiency as well creates the need for machines that operate with the latest technology and provide maximum comfort. Sauer Bau und Projektentwicklung GmbH, based in Starnberg, Germany, saw these as reasons for choosing the Sennebogen 870 long reach demolition machine.

The machine used by Sauer Bau is used for a variety of purposes, meaning they save time as well as human resources. The 870 E is a real multi tasker when it comes to the controlled demolition of buildings, with the key being Sennebogen's tried and tested optional quick change system. This enables the machine to use a demolition grab to remove sections of a building, crushing material on the ground using the shears or a hammer attachment and pre-sorting materials for subsequent removal from site or loading trucks.

With an operating weight of up to 117t depending on the equipment and attachments being used, the 870 E long front demolition material handler is also a veritable 'green giant'. "Nevertheless, the steering controls are extremely responsive," says Sauer Bau operator, Martin Sturm. This has proved to be essential when working in a confined space, as well as when operating grabs and removing demolition material from heights of 20m to 33m. As of 2019, another version has been introduced that can work easily up to 36m.

Fast and efficient

As the saying goes, time is money; this makes it all the more important to keep an eye on the efficiency of demolition projects. The 870 demolition material handler has significant advantages in this area too. The 'Green Efficiency' engine system, which supports operators in their tasks, is standard on the machine. Fuel savings of up to 20% can be made thanks to the automatic stop and idle functions as well as optimised coordination of the engine and hydraulics. In addition, the machine

requires less transportation and less staff to facilitate these tasks. The sophisticated self-assembly system enables the installation of the rear mounted ballast and the boom without the assistance of an additional crane, meaning only three machine parts have to be transported before starting work. Another plus is that thanks to the compact, telescopic undercarriage, the main body of the machine fits easily onto a low loader.

Occupational safety

Qualified employees are, and always will be, a company's most important asset. Putting them in unnecessary danger is completely out of the question as far as Sauer Bau is concerned. "The safety of my employees is my top priority," says CEO Florian Trinkl. "We can confirm that the higher weight of the 870 demolition material handler has a very positive effect on the machine's stability."

In addition to stability, there are lots of other features that contribute to increased occupational safety of the machine, such as 'bullet proof' glass and front and roof gratings to protect from falling material, additional stick mounted cameras for monitoring the work area, and a uniquely elevating cab. The latter can tilt upwards by 30° and also elevate up to 2.7m, bringing the operator nearer to the demolition area and enable work in an ergonomic position. Also, an electronic work area monitoring system was installed ex works on the Sauer Bau machine. This prevents the 870 demolition material handler from tilting due to overload. "Overall, we are extremely satisfied with our purchase. And, when our operators feel as safe as they do, they have so much more fun while working," concludes Trinkl.

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DEMCO CARRIES OUT QUALIFIED REMOVAL OF 580T HELICOPTER PLATFORM

When the company Finalfa in Italy decided that its old and dilapidated helicopter platform had to be demolished, it decided that the best option for a safe but yet efficient job was to ask the company DEMCO, a contractor specialising in controlled demolition methods, to undertake the job at hand.

Demco S.R.L. is one of Italy's most prestigious contractors in controlled demolition and dismantling. The company was founded in 1995 by Marchetti Giancarlo and Pierlugi Magri and is located in northern Italy in the city of Seriate, near Bergamo. Both Magri and Marchetti have a long and proud history working with concrete cutting and controlled demolition techniques, starting their business in a small workshop in Seriate. Slowly the business grew with more clients and larger projects.

In 2003 the company acquired a new office and workshop in order to house more equipment and an increasing number of staff. With a skilled workforce, the right equipment and extensive knowledge concerning

different demolition methods, Demco has been used on more and more advanced projects, which with time also resulted in work abroad. Demco today consists of a tight team of 15 trained operators and technicians and has an annual turnover of around €2.3M. Demco's services include controlled demolition using hydraulic and high cycle concrete cutting systems like diamond wire sawing units, wall saws, concrete core drilling systems and hydraulic demolition and cracking devices. Often its work requires large diameter equipment which Demco has no problem in providing.

The Demco team is constantly involved in projects, sometimes seven days a week, around the clock, working in shifts if the project requires it. The home market is

of course Italy, but the trends are that Demco's work is becoming increasingly pan-European with projects in France, Spain, and Serbia to name but a few countries. Recently a project was even undertaken in Mexico.

Tough task in removing a helicopter platform

There are no standard jobs for Demco, meaning that thorough estimations and technical calculations are necessary in order to carry out the jobs properly, safely and efficiently. A good example of the kinds of projects Demco is working on was undertaken between July and August 2019. The company Finalfa SPA, located in the city of Verona, had a helicopter platform located on top of a 40m high main office building. The platform had



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deteriorated over the years and posed a threat to the safety of the 200 people working in and around the building. Additionally, the platform did not meet seismic regulations in the area, resulting in the decision to demolish and then replace it at a later date.

Demco's mission was to figure out the most secure method of demolishing and removing the 580t heavy, 21m wide and 800mm thick platform from the roof of the building. Extensive planning work was initiated in order to find the best method to demolish the platform, with the planning done in cooperation with an engineering company. Several different methods were tested until the safest way of taking down the heavy platform was found. The choice of the wrong method could have resulted in a possible disaster, both for people and for the underlying buildings, as 580t is a very heavy weight and could destroy the whole building if something went wrong.

The method chosen saw the platform being removed from the concrete columns it was resting on simultaneously by using two huge mobile cranes of 600t each, both with a large lifting capacity. If the weight placed on the structure was unbalanced then it could damage the structural integrity of the building, so it was calculated exactly where on the platform surface the lifting handles had to be positioned. These consisted of eight heavy iron frames, with four located on the upper

side and four under the platform, bolted together two by two, with the holes for the bolts being core drilled through the heavily reinforced concrete platform.

After the lifting frames were positioned, the lifting cables of the cranes could be attached. The two cranes then secured the platform with the wire sawing of the concrete columns the platform was resting on beginning. When the columns were cut and the platform released, the platform was then lifted down to the ground. For safety reasons, during the whole of the dismantling work and the platform lift, the building was evacuated. Five or six Demco people worked on the dismantling as well as the crane operators. The 580t heavy concrete platform consisted of 265m³ of material and was broken up on the ground with the resulting debris being recycled.

Specialist knowledge gives more job options

The client was amazed and very satisfied with the work and how smooth and safe the whole project proceeded. "Our goal and objectives with the whole project were fully reached. Everything went according to our plans," said Demco's Pierluigi Magri. Magri also stated that he thinks that Demco has found a niche working in carrying out these advanced and very specialised projects in Europe. "The demolition market is from time to time rather difficult to work in, with a very hard price competition. But with our specialised knowledge and

equipment we are hard to compete with in advanced projects. A traditional demolition contractor normally doesn't have the knowledge. That is why we are quite busy with a lot of work," says Magri.

In the future, it is planned that Demco is to both keep growing and to specialise at what it is good at. The company wants to become even more specialised in its field of operations and continue to increase the quality levels of its services and the equipment used.

www.demco.it



Successful salvage of shipwreck in Norway

During a heavy autumn storm in September 2018, the ship M/S Osford ran aground off the coast of Trøndelag in Norway. Several attempts to salvage the shipwreck were unsuccessful, as none of the used methods were able to get the job done.

In a final attempt at salvage, the ship was to be cut into smaller pieces with a wire saw, so that parts of the wreck could be loaded onto a barge and brought ashore. The Norwegian company Kristians and Bygg was awarded the contract and from the very beginning of the salvage operation, the company consulted Tyrolit, as the diamond tool manufacturer already had experience with similar projects. Another complication arose however, as due to very bad weather forecast, the salvage work had to be completed as quickly as possible.

For the realisation of the project, the contractors selected the Tyrolit diamond saw wire DWH-S plus a wire saw from the Italian machine manufacturer Benetti. Tyrolit also mounted two FZ-4S hydraulic wall saw bodies on VAS rails, which could move upwards to ensure a sufficiently aggressive cutting angle. Overall, Kristiansand Bygg only needed 26 days and seven cuts to get the shipwreck safely onto the barge. The diamond saw wire DWH-S did a great job with only 350m of wire being required for the task, which is 100m less than initially estimated.

In addition to the challenging timeframe, care had to be taken throughout the project not to pollute the sea. The Norwegian Coast Guard therefore continuously inspected the seabed with a remotely operated vehicle (ROV) to ensure that the project did not leave any contaminated residue.



MB CRUSHER UNITS AID GREEN DEMOLITION

Reusing materials so that nothing is thrown away is a concept that can be applied to demolition processes, with material selected, processed as necessary and then reused, directly on site or at specialist recycling centres. Selective demolition, therefore, is the first step towards a circular economy in which construction will give value to waste. The quality of the result depends on the type of demolition process and the machinery used for the separation and processing of the debris.

A company in Spain understands this well, having recently demolished an old building before building a new replacement. The company likened the process to a building made with Lego and then using the same bricks to build a new one. In effect what was demolished was reused for the new building. The bulk of the recycling work was done using a MB Crusher bucket, with which inert materials were crushed prior to reusing them. The job was carried out with a single heavy machine, and with a single operator, at the same site, quickly and with minimum investment.

In France, a company managed to recycle almost all the demolition debris of an old house and reuse the material to build a new one directly on the same spot, removing major logistics and disposal problems. In Turkey, one excavator and one operator recovered and recycled the road and demolition material containing a mixture of basalt and asphalt directly on site and at a very low cost. This was done by attaching a BF90.3 crusher bucket to an excavator, which collected the excavated material, then crushed it and made it available on site for immediate reuse.

The MB Crusher product range is designed and built for these processes and is able to process different sizes of material by simply adjusting the jaws of the crusher bucket, or by changing its panels. If there is a need to handle material of different types and sizes, this

is easily catered for by installing the right accessory on the MB-G clamps. With the MB Crusher attachments, it is possible to maximise the recovery of waste material, producing high quantities and high quality recycled concrete. This also leads directly to a reduction in the cost of transporting waste material, landfill or treatment plant costs, the partial or total elimination of material repurchase costs, whilst at the same time delivering profits through the reuse, sale or recycling of the material.

Moreover, if well managed, a sustainable demolition project has a significant impact on the many urban and industrial areas. Where a dilapidated house or warehouse is demolished and replaced with a new one, there is added value, which benefits the entire area and its community. This is also in line with the goal of recycling 70% of construction waste by 2020 as established by the EU, when and where appropriate solutions are available and used correctly.



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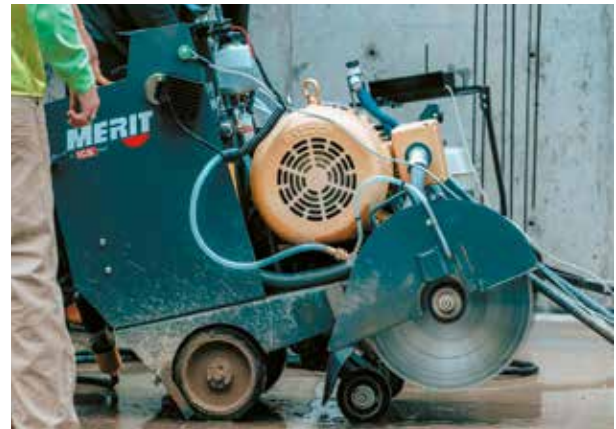
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The joint Kaskod-MTRONIX/Levanto team at Levanto's headquarters and manufacturing facilities in Kauniainen, Finland.



DIAMONDS IN THE ROUGH

That's how concrete cutters like them

Using diamond consumables is bread and butter for concrete cutters, with a well performing diamond blade or a core bit being integral to the timely completion of a sawing or drilling project. PDi's Andrei Bushmarin reports the latest news from the diamond tooling industry.

Leili Tools applies array diamond technology to diamond wires

The patterned or array diamond technology was first implemented in wall saw blades and core bits about 10 years ago. Diamond wires, however, proved much trickier for this method to be applied, mainly due to their complex shape. It rendered the manufacturing process economically unfeasible. Following many years of study and experimentation, China based Leili Tools has developed a vacuum brazing process that allows the commercial production of diamond wires with pre-set diamond particles. What's more, the Leili solution

permits reducing the bead size from the conventional 10mm down to smaller diameters. At present, the Chinese manufacturer is capable of producing array type diamond wires of Ø 5.0, Ø 3.5 and Ø 3.0 specifications. Due to the smaller beads, these wires can be used on non-ferrous metals such as copper, lead and zinc as well as precious stones such as jade. Thanks to the high initial exposure of diamond particles, the wires ensure fast cutting right from the start.

www.leilitools.com

A handful of new segments from Kern-Deudiam

Based out of Hövelhof, Germany, Kern-Deudiam has been manufacturing diamond consumables for over 40 years. In 2019, the company updated its diamond segment portfolio with a bevy of new products. First was the single segment type KBU-B for core drilling applications. Thanks to its special bridge geometry, this segment can be used on almost any kind of concrete. According to the manufacturer, this all-rounder shows unrivalled service time, particularly on heavily reinforced concretes, and smoothes the drilling process by minimising the wobbling of the core bit. For the new Express2 line of diamond blades, the German company developed a segment that allows swift sawing of a wide range of hard materials, including reinforced concrete. This laser welded segment performs equally well on

both wall saw and ring saw blades. Also new are the X2 diamond segments and the Unix2 socket core bit for dry drilling jobs, premiered at bauma earlier this year. The laser welded X2 segments are available on both socket core bits and regular drills. With dry drilling gradually becoming the technique of choice thanks to its efficacy and eco friendliness, the Unix2 has been specifically designed to satisfy contractors' hunger for this type of equipment. There are said to be even more innovations in the pipeline, which the German manufacturer is planning to showcase at the International Hardware Fair in Cologne and BeBoSa in Willingen in early spring next year.

www.kern-deudiam.com





Dymatec enjoys continued success in the US

Based in Clearwater, Florida, Dymatec USA continues to impress customers with its SDF diesel slab saw blades. Manufactured at the Dymatec UK headquarters in Luton and distributed via Dymatec USA, the SDF blades keep winning the hearts of professional contractors across the States thanks to the combination of high cutting speed and long life. Another factor in Dymatec's continued success in the US is the excellent after sales service and technical assistance, offering fast delivery times and on site support. Dymatec continues to invest heavily in R&D, aiming to provide the same consistent quality time and time again. As Dymatec's blade production manager Dan Edmondson puts it, "You can't rush perfection – everyone is a masterpiece!"

www.dymatecusa.com

Kaskod enters distribution agreement with Levanto

Kaskod-Mtronix, the Estonia based manufacturer of concrete sawing and drilling machinery under the brand name 'Cuttronix', has partnered up with Finnish diamond tool specialist Levanto Oy for the distribution of Cuttronix equipment in Scandinavia and Russia. The Estonian company, which became a major sensation at



Matti Harjanne, Levanto's production and sales manager, is testing the latest Cuttronix CM-10 drill motor.

bauma earlier this year, is now busy building a worldwide dealer network. Levanto has a strong presence in both Scandinavia and Russia and has agreed to distribute Cuttronix machines in the said regions. While the parties are hammering out the details of the dealership agreement, Cuttronix uses Levanto's testing facilities to try out its machines. In early November, it trialled there its latest drill motor CM-10. Based on 'ISRCdrive' integrated switched reluctance technology, the CM-10 has a rated output power of 10kW (peaking at 15kW) and can operate in both single phase and three phase modes. Complete with durable, changeable spindle gearboxes, the motor is suitable for drilling jobs in masonry and all types of reinforced concrete with core diameters ranging from 20mm to 1,000mm. The drill shows a particularly impressive performance when paired with Levanto's newest drill segment 'Cyclone'. 20% faster than Levanto's previous flagship model 'Trombi', the 'Cyclone' reflects the Finnish manufacturer's green values by being a 100 % cobalt free product.

www.kaskod.ee
www.levanto.fi

Dico prioritises 'Zenesis Edition R-Plus' tools

Belgium based Dico Diamond Company, a Zenesis supplier for over 10 years, features Edition R-Plus technology in manufacturing patterned diamond segments. R-Plus is the next evolution of the proven Edition R technology. Zenesis Edition R-Plus patterned segments reduce costs for end users by ensuring fast cutting speed and delivering extended lifetime. Dico Diamond Company offers the entire range of Edition R-Plus tools: floor saw blades (10-80HP), wall saw blades (10-25kW), blades for hand held machines and core bits.

www.dicodiamond.be



Young Sun Diatech: up and coming name in the diamond tooling game

Based in South Korea, Young Sun Diatech is an up and coming player in the global market of diamond consumables, in particular, the diamond wire segment. The company was established in 1999 by Kim Young who has a 30 year track record in the business. Over the course of two decades, Young Sun Diatech has accumulated enough manufacturing expertise and a grand total of 20 patents to stage an international breakthrough. European customers were already exposed to Young Sun Diatech's products at bauma this year and now the Korean manufacturer is looking to impress the North American audience at the World of Concrete show in February 2020. The diamond tools on display will include the silent rubber cup wheel for smooth and noiseless grinding, the 'Bullseye' grinding segment compatible with all existing types of floor grinders and a range of diamond wires which is Young Sun Diatech's chief area of expertise. The 'Mir' wire, with bead diameter varying from 8mm to 11mm, is designed for the dry sawing of reinforced concrete; the 'Volter' wire is made for steel cutting applications while the 'Spir' model tackles soft and difficult to cut materials such as aluminium and copper.

www.diamond114.com

Solga responds to growing demand for microtrenching

The growing demand for microtrenching services (laying of fiber optics cables) in Europe prompted Spain-based diamond tool specialist Solga Diamant to develop a diamond blade tailored to this application. According to the Spanish company, manufacturing of such a tool is a very technology-intensive process. The blade is expected to provide deep (up to 30cm) and clean cuts in various materials at a speed of over 1 linear meter per minute. The existing three-blade microtrenching systems are expensive and prone to overheating while monoblade machines are often not powerful enough to move a big-sized blade. The Solga blade, featuring patented 26mm wide multi-layer segments, combines the robustness of a monoblade system with the agility of a three-blade one.

www.solgadiamant.com



Brigitte Peterson and Thomas Schwab at Bauma 2019.



A POWERHOUSE

of a woman

The future belongs to women. That much is obvious. Already today there is not a single profession in which women haven't successfully equalled or surpassed men. Even such traditionally male oriented industries such as concrete sawing and demolition cannot buck the trend, with women in these businesses now equally good at steering both excavators and companies. Brigitte Peterson, the managing director of US based GSS International is a living and breathing example of it. Andrei Bushmarin reports.

Located in Citrus Heights, California, GSS International is a sales and service outfit that represents Baier Tools - a worldwide recognised manufacturer of concrete cutting and drilling systems based out of Stuttgart. Baier is currently represented in some 60 countries all over the globe, with North America being one of its most profitable overseas markets. This is a direct result of the tireless efforts Brigitte Peterson and her team have been putting into promoting the German company on the American continent.

Bodybuilder turned sales manager

Born in 1960 in Ludwigshafen, an industrial city on the river Rhine, Brigitte Peterson has had sporting blood running through her veins since day one. When Brigitte was in her twenties, she won the German bodybuilding championship while coming third in Europe. It was also thanks to a sport, squash to be precise, that she met her future collaborator Thomas Schwab, the general manager of Baier Tools. When her sporting career started to wind down, Brigitte moved into business, taking up various managerial positions, mostly associated with sales. With her winning personality, Brigitte never had any problem connecting with people, which is a key quality in a sales person.

'Going out West'

1990 was a watershed year in Brigitte's life. She married an American and moved to live with him in the United



The GSS International team and Thomas Schwab at World of Concrete 2019.

States. She had a string of various jobs there, but a wholly new chapter in her career began in 2015 when GSS International was established as a Baier Tools sales channel in the US. It was Brigitte's first encounter with concrete sawing and drilling but, as anybody from the industry will tell you, people come into this business from all walks of life. Brigitte's extensive sales experience came very handy in her new role as CEO and sales manager for the USA, Canada and Mexico. Her first-hand knowledge of both the German and American mind-set was another factor in the rapid growth of the fledgling company, with GSS standing for 'German Solutions for Success'.

Construction is a woman's job

When asked if she ever felt any negativity from her male peers, Brigitte says that it was exactly the opposite – all the people she has met so far in the industry have been very encouraging and supportive. She believes that women should not be afraid of choosing a career in construction as most women are born communicators, with the industry being all about communication and interpersonal skills.

Service is the key to success

Although the offering of a high quality reliable product is a prerequisite for any successful supplier of construction machinery, it is the after sales service and support that makes all the difference. According to Brigitte Peterson, this is particularly evident in the United States where people are used to top notch service. At the moment the Baier brand is better recognised on the West Coast,



Brigitte Peterson at
World of Concrete 2019.

which is probably related to the fact that GSS is based in California. The most sought after Baier machines include the 11 blade channel cutter, dry coring system and a range of mixers. To spread awareness about Baier solutions, the GSS team (which consists of four sales people besides Brigitte) exhibits at every 'World of Concrete' trade show and regularly arranges and attends open house events across the continent.

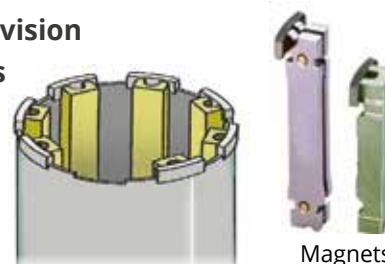
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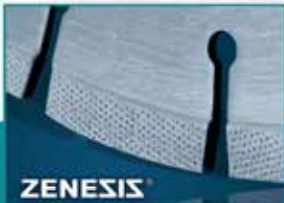
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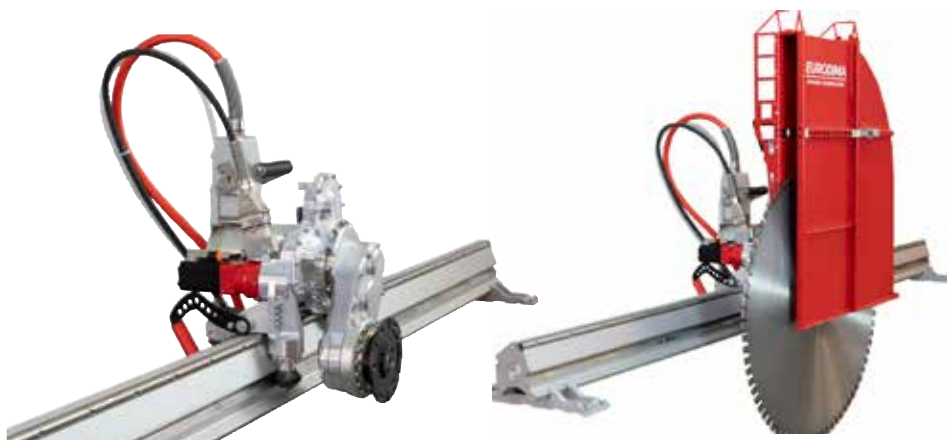
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Eurodima combines innovative and reliable technology

Eurodima from Wals near Salzburg in Austria has been a specialist in the development of equipment and tools for professional use in concrete drilling and sawing for more than two decades. Through developments in technology and mechanical engineering expertise, the company is able to rapidly respond to individual requests from customers at short notice in order to deal with any requirements. This can be done world-wide due to Eurodima's global distribution and direct sales network, which places a great emphasis on sustainability.

The company has been involved in the manufacture of wire saw technology and equipment for around 15 years, with its offering proven to be durable and strong.

Special features include a servo system that can be used for wire and the WM50/90 wall saw and a two speed gearbox allowing high torque even at a slow cutting speed. The system is very easy to disassemble with the pneumatic wire tensioning system protecting the diamond wire.

At bauma 2019 the company launched the new 'Servo Power' WS20E and WS20H wall saws, which both possess impressive performance with low weight and are also available on two rail systems: WS20E (Eurodima) and WS20H (Hilti). The WS20 has a 23kW servo engine, free saw blade excavation of Ø825mm, a long life service interval of 250h and is easy to service due to the use of norm bearings and sealing.

Johannes Radauer, head of sales and marketing says of Eurodima's developments: "We are very satisfied with last year's progression in selling our servo engine systems over the whole world and we are continuously extending our dealer network, but we always interested to get in contact with new passionate dealers!"



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EPIROC BREAKERS *with environmentally friendly lubricant chosen for eco farming project*

The ecological farming company, AgroHerc Organic Agriculture in Bosnia-Herzegovina, is using Epiroc HB 2500 and HB 2000 hydraulic breakers equipped with Epiroc Bio chisel paste to prepare land for planting olive trees.

AgroHerc Organic Agriculture is a company heavily focused on organic farming, with numerous plantations located around its base. From here it produces around 2,000t of organically grown fruit, olives and other produce each year. On the land adjoining the fields, the ground is being prepared for a large plantation of new bio olive trees. Three Epiroc heavy hydraulic breakers, two HB 2500 and one HB 2000, are being used to break



the ground rock working 10h-15h each day, playing a crucial role in preparing approximately 1.4Mm² of fields for planting. The breakers' wear bushings are lubricated with Epiroc Bio chisel paste, which carries the EU-Eco label confirming its suitability for environmentally sen-

sitive applications thus making it ideal for the project. Supplied with all Epiroc hydraulic breakers, Epiroc Bio chisel paste is based on easily biodegradable synthetic esters and is suitable for all applications, including underwater breaking.



MB CRUSHER UNITS provide effective solutions to complex problems

On the construction site, small equipment, such as skid steers, loaders, and backhoe loaders, are often used for collateral or smaller work. For companies that deal with road work, urban construction sites, trenching, recycling, agriculture, foundries, quarries, and mines, the task of the main work generally falls to excavators. MB Crusher units are able to help transform skid steers and backhoe loaders into powerful machines capable of handling demanding jobs and still save time and money.

MB Crusher's ultimate goal is to transform any machine, of any size, into a powerful crusher or screener. MB Crusher equipment can hook up to any brand of skid steer, loader, or backhoe loaders from 2.4t to 25t, with mechanics that are innovative, with a simple operation enabling the crushing and screening of any material for immediate reuse or resale. All of this can be done directly onsite by reducing or screening demolition or excavation material, selecting ferrous foundry scraps, processing and reusing waste, as well as screening soil for agricultural and landscaping projects.

As the MB Crusher units can transform waste into reusable materials, producing savings on hauling expenses, avoiding landfill fees or specialised treatment centres, saving on purchasing aggregate material, hiring operators and reducing long working hours. The benefits delivered are also important for the environment and nearby urban areas, with reductions of dust and emissions, lower truck traffic, less noise, and faster job execution.

There are numerous examples of the successful use of the MB Crushers. In the United States,

a construction site was situated on a volcanic hill where a large structure with concrete pillars, floors and walls needed to be demolished. Access to the area was limited, unsafe and with limited room for manoeuvre. With the MB-L140 crusher installed on a Kubota skid steer, the company crushed the demolition waste and used the crushed concrete as backfill for the construction of a new road to provide better access to the job site. As the units provide the effective and economic disposal and recycling of waste, all the resulting material – inert, ferrous, stony, earthy, and organic – can be treated and selected without passing through landfills. This means that public bodies are also able to benefit from managing solid urban waste. For example, a municipality in Normandy, France, installed the MB-LS170 screening bucket on a backhoe to screen and select the waste collected by street sweepers.

It's not just waste and construction materials that can be processed as agriculture also directly benefits. In the case of sodic soil contamination in Australia millions of hectares were deemed unstable. The solution was to use gypsum to counteract the clay and promote drainage. By using an MB-L140 crusher bucket mounted on an ASV RT unit, the gypsum rocks were reduced to fragments that 'mineralized' the soil and made crop planting possible. Making the units even more attractive for use, MB Crushers share a quick and simple installation with their carriers, with operation and maintenance being performed directly on site by the operator without needing specialised personnel.

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Delete



THE LATEST IN

dust suppression

Dust suppression is one way to combat the hazard of dust spreading in a workplace. Here we take a look at some of this year's latest developments.

In inner city areas, the populace needs to be protected as much as possible from dust and noise emissions during demolition and construction works. To this end, EmiControls has introduced the V12 dust controller, an efficient solution for both problems. Perfectly illustrating its attributes and benefits has been a development project in Bolzano in northern Italy, where an entire district is being redeveloped. As the area is located directly next to the old town centre and the main square, the work needs to be carried out with as little dust and noise as possible. The construction company responsible for the work used a V7 and the new V12 from EmiControls as part of the demolition operation. The dust controllers proved especially beneficial in the hot summer months, keeping dust to a minimum, leading to no complaints from local residents.

The V12 is particularly quiet with a noise emission of 60dB within a radius of 20m. The turbine operates at two speed levels, giving it flexibility to expand fine

water mist from 25m to over 65m. Thanks to the valve technology, the amount of water can be regulated via remote control on three levels which enables the user to design the spray pattern flexibly and adapt it to the respective requirements. The water flow rate is 16-100 l/min, energy consumption is also very low, without sacrificing performance or throwing distance, which is mainly due to the aerodynamic position of the turbine blades. The machine itself and the individual components have a long lifespan and due to its small size, the V12 can be easily transported and positioned.

www.emicontrols.com

WLP

WLP's dust suppression system Demolitor 70 has a dry total weight of 600kg, installed power of 11kW, a 2.2/4kW pump, an IP55 protection rating and a power supply of 3P+T 32A 400V. It also features a 360° rotation, an elevation of -10° / +40° and a minimum pressure

of 0.5bar. The Demolitor 70 is 2,100mm in height, 2,400mm in length and 1,700 mm wide.

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New compact model from Generac Mobile

Generac Mobile has recently introduced a new compact model of 'Dust Fighter', the DF 4500. This new model is part of the range which fits between its existing 'mini' and 'midi' segments. The mini models are suitable for use on small sites, whereas the midi models are suitable for construction sites, quarries and other medium sized work areas (the company's 'large' models are designed for use at large mining plants and quarries).

The DF 4500 is compact so that it can be positioned anywhere and operated by a single operator and at the same time is able to produce a sufficient flow of nebulized water to cover considerable distances. The reach of the DF 4500 is more than 30m and thanks to the rotation system, manual or automatic, can cover an area of 2,600m². It is also equipped with a manual or electric tilting system to better direct the flow of nebulized water and also comes with a slow speed trailer, an integrated control panel and optional remote control.

www.generacmobile.com

The Naltec water fog system

B + W Gesellschaft für Innovative Produkte located in Bottrop, Germany, offers efficient dust and odour solutions. B + W claim to be the market leader with its Naltec water fog system and has added to the range with spray cannons for distances of up to 200m. The Naltec 'Spray Cannons', described as a true power package by the company, generates super fine floating water droplets at very low energy consumption (working pressure 10bar). The fine nebulization makes it possible to economize water consumption which leads to a decrease in energy and operating costs. Its design results in low maintenance, with its mobile and stationary structure being adaptable to local conditions.

The spray cannons' are designed to use powerful fans to create fine water mist that is blown over a long distance. By tilting to 350°, all round fogging and wetting of a large area is possible. Depending on requirements, different options that allow various throwing distances and the amount of water sprayed are available. In windless conditions, throw distances of 15m to 200m can be realized. High manufacturing standards and design makes the cannons both robust and powerful, with the basic equipment featuring a fan with a diffuser, nozzle ring in stainless steel, frame with

rotary actuator, pump with filter and a controller with dry run protection. Other accessories include a three wheel undercarriage, remote control, trailer, water tank and power generator, all which enables flexible work in any location.

www.buwip.de

Tera 60 GTM, an 'all in one' solution

Dehaco's Tera 60 GTM is described as the 'all in one solution for dust control'. It is not dependent on an independent water or electricity supply, with the unit





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being equipped with a built in generator and water tank, although it can be connected to an independent water supply in the field. It is an extension to the existing Tera series, being the result of a symbiosis, developed and designed in house, in cooperation with existing users of the Tera series. This has led to the range of possible applications that can be handled being broadened. These include preventing asbestos being released from burning buildings, dust from spreading at recycling centres and controlling odour nuisance at waste treatment sites. This is due to the unit being designed for preventing dust emissions during demolition, renovation and recycling operations.

What distinguishes the Tera 60 GTM is the technology used to disperse the outgoing water flow to which the dust particles stick. Conventional nozzles require maintenance, as they clog up with lime and dust particles from water. This is not an issue for the Tera series owing to the usage of the revolutionary 'Demto-Rotor' which has been specifically designed for the Tera series, directly fitting the cone. The rotating spray head is designed with openings that distribute the water evenly when operating, with the openings being designed in such a way that lime and dust particles do not clog up. Furthermore, the unit is able to adjust droplet sizes with the single push of a button.

The galvanised steel frame of the Tera 60 GTM carries an integrated water tank, located on the underside of the unit and is equipped with baffle plates, ensuring balance when being moved, enhancing the road holding of the towing vehicle. In addition, the top cover of the machine can be disassembled and is therefore accessible at all times. The Tera 60 GTM is also available without agricultural undercarriage, drawbar and support legs named the Tera 60 GTX.

www.dehaco.nl

Trident dust controller from Buffalo Turbine

Buffalo Turbine's Trident dust controller has three separate turbines all powered by the same Kohler diesel engine, being capable of three times the coverage area of its single turbine dust controllers. The control unit is self-contained, meaning no generator, less maintenance costs and less equipment to find spaces for. Each turbine uses gyratory atomizing nozzles which do not clog the way other nozzle tips might do. The Trident can be equipped with one to three oscillation kits for more coverage area.

www.buffaloturbine.com



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New sales channel for Hatz engines in Belgium and Luxembourg

From 1 January 2020, Motorenfabrik Hatz will provide direct support for its new and existing customers in Belgium and Luxembourg.

"We are taking this step to further reinforce and intensively expand our market presence in Belgium and Luxembourg," says area sales manager Igor Hahn.

The change provides a lot of advantages for customers as it will ensure faster and more direct support from the manufacturer providing customers with access to the full product portfolio. For Igor Hahn the advantages are clear: "For the customer it means more convenient routes, faster availability and shorter delivery times. It's good news for all Hatz customers in Belgium and Luxembourg, as they'll be able to benefit from comprehensive and fast responding services as of the coming year."

In the wake of these developments, the former general importer BIA is transferring its responsibility back to the head office of Hatz. Motorenfabrik Hatz wishes to thank BIA and its employees for many years of trustworthy and successful cooperation. Hatz has announced this change to benefit everyone in the sales area who works with Hatz engines or other solutions and products from the company.

Genesis shears enable cost effective demolition of German viaduct

Wende Erdbau is a specialist in earthworks, demolition and recycling, being based in Fulda in Hesse, Germany. Operating since 1947, the company and its current 70 strong workforce are at present demolishing the Langenschwarz Viaduct on the A7 federal motorway. The structure was built in 1967 and is now no longer able to cope with today's traffic loads, requiring replacement by 2021. The western section of the structure (travelling from Kassel to Würzburg) is being completely demolished, including its superstructure, pylons, foundations and abutments. During the first phase of work Sebastian Wess, managing director of Wende, explained the challenges that the company will be facing during the project: "We need to remove a total of around 20,000t of reinforced concrete. The crushed and processed concrete has already been firmly incorporated into our operational material logistics plans. The scheduling is also tight because the new bridge is already being built while the old one is being demolished."

The 35m high bridge (at its highest point), required a supporting scaffold be erected specifically for the demolition of the super structure. A 30t excavator equipped with Genesis GDT 290 demolition shears is used to deal with the box girder and then sorting the

materials into the steel and concrete piles which will then be cut using Genesis GXT 225 R scrap shears. A 35t long front excavator will then start demolishing the bridge pylons that have been exposed following the removal of the bridge sections. A 40t excavator equipped with a shorter arm and delivering more hydraulic power will then be used to speed up progress on the last five vertical metres down to the foundations.

"The high art of demolishing a bridge structure is all based on proceeding rationally. We're breaking new ground with this demolition project and have equipped ourselves specifically to this end," says Sebastian. In addition to the usual attachments, such as hammers and grabs, the 30t long front excavators have been fitted with GDT 290 demolition shears (2,940kg) while the GDT 390 shears (4,170kg) have been installed on the 40t excavator. All have been supplied by Bischoff Baumaschinen GmbH, which is an

authorised Genesis dealer. "The equipment possesses a heavy duty and high quality, while very slim design," says Sebastian Wess. "It allows the wearing parts to be replaced quickly. These shears enable us to make rapid progress while maintaining high operational safety and low wearing costs."



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Indeco hammers used for track excavation on Bari-Taranto railway

An HP 9000, two HP 7000s, with help in the home stretch from the big gun, an HP 18000, have helped deliver a huge excavation project

The excavation job on the project involved digging a series of cuttings, tunnels and embankments for a double track railway between Bari Sant'Andrea and Bitetto (about 10km in length) along the Bari-Taranto line, to replace the existing single track. The aim of the project is to connect the two Apulian cities with a high speed line. The second track is being laid along a totally new route, which means getting rid of no less than six level crossings in the town of Modugno, helping both to increase the amount of rail traffic and to ensure faster train journeys. The excavations and reinforced concrete works were entrusted by RFI SpA, a company in the Ferrovie dello Stato group, Italy's national rail corporation, to Matarrese Srl.

The overall length of the stretch involved is 12km, including 2km along the pre-existing route, as well as 10km of new line along a cutting where 1.5Mm³ of limestone had to be excavated. The main hammers used for the excavations were an Indeco HP 9000 and two HP 7000s. Daily production was approx. 750m³



for the HP 9000 and 550m³ for the HP 7000 over the course of around 800 working days. This was in line with expected performance targets.

At the intersection with the pre-existing track, night trains had to be cancelled, leaving just 55h to build the

new underlying rail section and put back the overlying track. For this part of the job, an Indeco HP 18000 hammer was used, which reduced excavation times from the 20h planned to just 8h, with hourly production of about 500m³.



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Darda expands multi cutter range

The new Darda MC300 multi cutter weighs 290kg and comes with a cutting force of 60t, an opening width of 350mm and is designed for use on carriers from 2.5t – 9t. It has also proved the ideal partner for the remote controlled Brokk B200 or B300 demolition robots.

Darda multi cutters are designed for the safe and efficient cutting of profiles, utility lines and cables in a variety of industries, including demolition, construction, recycling and nuclear power. In construction, for example, entire industrial halls and production facilities can be cleared of pipes, steel girders and ventilation shafts; cables may be cut into small pieces and the materials sorted in preparation for

subsequent demolition work. In recycling yards, plastic pipes, high voltage and deep sea cables etc can be cut.

The multi cutters' can also be used for everything from car recycling to the separation of car tyres and rims and are ideal for underwater use. Furthermore they have proved to be particularly popular with contractors when used for internal coring. "Its slim design and manoeuvrability make our multi cutter an economical cutting tool for small carriers, even when working in difficult to access places. And regrindable and replaceable cutting blades guarantee easy maintenance and low wear costs," says Darda's sales manager Andreas Ruf.

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Promising outlook for SaMoTer 2020

SaMoTer 2020 is set to provide opportunities for machinery manufacturers and buyers to both exhibit and see some of the latest developments in construction, with the Veronafiere show offering a broader and more complete round up of the industry than ever before. The show will be held from the 21-25 March at the Veronafiere in Italy, with a larger show ground, expecting many more exhibitors and visitors than in 2017.

As well as the usual show and Asphaltica, which will highlight the latest in roads and infrastructures (jointly organised with SITEB - Italian roads and bitumen organisation), the 31st SaMoTer will also see the debut of ICCX Southern Europe, aimed at the precast sector. Highlighting the renewed importance of the show, both Liebherr and Wacker Neuson return after last exhibiting in 2011. Other confirmed exhibitors include: Bobcat, Doosan, Eurocomach, Hidromek, Hyundai, Komatsu, Sany, Takeuchi, Venieri and Yanmar.

The last show in 2017 attracted 455 exhibitors, of which 25% were from outside Italy, with the 65,000m² exhibition space attracting more than 84,000 visitors from 86 countries. Today, three months from the opening day, confirmed exhibitor numbers are 50% higher than at the same time in 2016. As stated, the show will see the return of both Liebherr and Wacker Neuson for the first time since 2011. "The Liebherr Group, in the wake of positive growth in sales in Italy over the last 5 years and also to emphasise its desire to consolidate and expand market penetration throughout Italy, has decided to attend SaMoTer again," said Christophe Sanchez, CEO at Liebherr Emtec Italia SpA. "We were keen to place our trust in the updated format of the event and Veronafiere's promotion campaign. We are confident that the 2020 edition will be successful and help us improve our visibility and thereby achieve the increasingly ambitious goals that the Liebherr Group has set itself for Italy."

Wacker Neuson also shares this view: "After a few years of market instability and consequent restructuring of the sales network, Wacker Neuson has decided to attend SaMoTer," said Georg Jung, sole director of Wacker Neuson Italy. "It will be an opportunity for us to present the Wacker Neuson Group's innovations to sector operators, including the ranges of vehicles and solutions characterised as ever by cutting edge technology, high performance and above all important savings; qualities that can be summarised in two words: efficient machines."

The show, which increasingly emphasises manufacturers' innovations and developments, is set to capitalise on the improved prospects for the Italian construction industry. With increased numbers of exhibitors, more exhibition space, partnership shows, SaMoTer 2020 certainly looks a promising show.



**RUSSIAN
DEMOLITION
FORUM
2020**

Venue of the First International Russian Demolition Forum 2020 - Korston Hotel Moscow 4*. Business hotel, entertainment and leisure complex, located on the bank of Moscow-river in the ecologically-safe district "Vorobyovy Gory" near to the Lomonosov Moscow State University and sport complex "Luzhniki". It offers hotel guests one of the best views of Moscow.

First Russian Demolition Forum in February 2020

Similar to Demtech India 2019 Russia will organize its first demolition forum in 2020. The forum will take place at Korston Club Hotel in Moscow, Russia, 4-5 February 2020. Initiator to the forum is Artem Kondratiev, General Manager of the Russian Demolition Federation. The form will be organized in partnership with EDA (European Demolition Association) and supported by PDi Magazine.

The main goal of the forum is to create a platform for cooperation between Russian demolition companies, exchange of professional experience of modern technologies with authoritative European and World experts in demolition industry. Participant at the forum will be Russian demolition contractors, international demolition contractors, the management of EDA, NFDC (National Federation of Demolition Contractors, UK) SDA (Serbian Demolition Association, leading industrial companies and enterprises of Russia, global manufacturers of demolition attachments and machines, etc.

Some of the topics that will be focused on during the forum will be: Current trends in the demolition industry and the general movement of the market, modern innovation technologies for demolition and dismantling of buildings and constructions, European and World demolition experiences and job site stories with speakers from EDA, laureates of the international demolition awards, global demolition experts, waste management lectures and lectures of how to re-cultivate contaminated land, etc. Within the framework of the forum the first awards for Russian demolition projects will be given. Guests of honours, speakers and members of the awards judge panel will be General Secretary of the European Demolition Association (EDA) Jose Blanco (Spain), National Federation of Demolition Contractors (NFDC) CEO Howard Button, President of the EDA Francisco Cobo Valero (Spain), CEO of the DESPE demolition, EDA Vice-President Stefano Panseri (Italy), Managing Director of the RVA Group Richard

Vann (UK), founder and Managing Director of Moltoni Corporation Robert Charles Moltoni (Australia), CEO of the DDM Group Theo Velis, Commercial Director of the DDM Group Jaques Fontaine (Netherlands), international trade manager of the Delete company Nikolas Ruotsalainen (Finland), President of the Serbian Demolition Association Dejan Bojovic (Serbia).

At the forum there will be an inauguration ceremony of the first Russian Demolition Association. A special education academy for the Russian demolition industry will also be set up at the forum.

www.rusdemolition.ru



Initiator of the first Russian Demolition Forum and General Manager of the Russian Demolition Federation, Artem Kondratiev.

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preparation techniques

Even with Conexpo/Conagg breathing down its neck, World of Concrete 2020 is expecting to attract just as many exhibitors and visitors from the fields of demolition, concrete cutting and floor preparation as in January 2019.

World of Concrete 2020, probably the most important annual global show for (amongst other things) the demolition, concrete sawing and drilling, concrete floor grinding and polishing industries is fast approaching. Manufacturers and visitors from all over the world are set to gather in Las Vegas, USA, in February next year, with PDi Magazine as per usual exhibiting in the central hall and providing coverage of the show.

10 years of growth

This year, World of Concrete will be held between 4-7 February (seminars 3-7 February) and is the 45th edition of this amazing show. Around 10 or so years ago the exhibition experienced a decline in both exhibitors and visitors, but has during the last decade steadily seen growth in numbers of both, reaching a 10 year high in 2019. Currently more than 1,150 exhibitors have registered, according to the exhibitor plan, with this figure certain to increase, although the trend for exhibitor growth may end next year. The reason is simple, as also held in Las Vegas in 2020 (10-14 March) is Conexpo/Conagg, organised by the American Equipment Manufacturers Association. Many heavy equipment manufacturers and suppliers choose to exhibit at only one of the shows and this tends to see World of Concrete being neglected.

In 2019 World of Concrete was visited by more than 60,000 people and the 2020 show is expected

to reach more or less the same figure. The show is undoubtedly a global arena in terms of both exhibiting companies and visitors, with a large number of

manufacturers from all over the world set to exhibit, particularly from the USA, Europe, China and Japan. In terms of light and medium demolition equipment



such as hydrodemolition, concrete sawing and drilling, dust extraction, concrete floor preparation and polishing equipment, etc., all the major names will be there, as well as a few new names.

Good times in the US

The positive market outlook in the US means that manufacturers in the above sectors want to target the US building and construction industry which has shown impressive growth. Major investment packages have been launched, primarily in terms of improving infrastructure in such areas as roads, bridges, viaducts, tunnels and so forth that have been neglected for a number of years. This is also reflected in terms of general construction of private homes, offices and industry, which are also picking up. This development has also created new jobs in large parts of the United States, and has seen a decrease in unemployment levels. This development may well keep Donald Trump in power for another four years despite his failings in many other areas.

On the following page you will find a selected list of exhibitors within the sectors covered by PDi Magazine. So, we hope to see you in Vegas at our Booth 4224 located in the central hall.

www.worldofconcrete.com

2020 WOC EDUCATION PROGRAM HOURS

Monday, February 3 (Pre-show Education all day)

3-Hour Seminars: 8:00 am - 11:00 am; 1:00 pm - 4:00 pm
4-Hour Certification Seminars: 8:00 am - 12:00 pm; 1:00 pm - 5:00 pm
90-Minute Seminars: 8:30 am - 10:00 am; 10:30 am - 12:00 pm; 1:30 pm - 3:00 pm; 3:30 pm - 5:00 pm

Tuesday - Thursday, February 4-6

3-Hour Seminars: 8:00 am - 11:00 am
4-Hour Certification Seminars: 8:00 am - 12:00 pm; 12:00 pm - 4:00 pm; 1:00 pm - 6:00 pm
90-Minute Seminars: 8:30 am - 10:00 am; 1:30 pm - 3:00 pm

Friday, February 7

3-Hour Seminars: 8:00 am - 11:00 am
90-Minute Seminars: 8:30 am - 10:00 am

WOC EXHIBIT HALL HOURS:

Tuesday-Thursday, February 4-6; 9:30 am - 5:00 pm
Friday, February 7 - 9:00 am - 12:00 pm

2020 PRICING

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Super Pass Residential (SPR) \$600; \$725 after 12/11/19

World of Concrete 2020 Exhibitor List

AmeriPolish, Inc	O40835	K2 Sanders	S13245
Aquajet Systems A	C4547	Kenwood USA	N1345
Ashine Diamond Tool Co. Ltd.	S11706	KLINDEX AMERICA	O40639
Atlantic Diamond Tools Inc	S11915	Lackmond LLC	C4561
AUSA Corporation	C5685	Lackmond LLC	C4563
Avant Tecno USA	C6877	Lackmond LLC	C4565
Aztec Products Inc.	O40843	Lackmond LLC	O31362
BlastPro Mfg.	S11526	Layher Inc.	C3315
Blastrac	S10314	Liebherr USA, Co.	C5677
Blount Inc.	O31174	LISSMAC Corporation	O31348
Bobcat Company	C5377	Liugong North America	C7027
Brokk Inc	C4547	Makinex USA LLC	S13519
Brokk Inc	C4547a	MB Crusher America, Inc.	O30230
Brokk Inc	C4547b	Multiquip Inc	C4537
Buffalo Turbine	S13355	National Flooring Equipment	S11115
Caterpillar Inc	C5961	New Grind Inc	O31334
CLEARBLAST	O30870	Norton Clipper Construction Products	C4641
Concrete Polishing Solutions	O40827	NOVA DIATOOLS CO.	S12757
Conjet AB	C4611	Novatek Corporation	S12939
Connect Work Tools and Oil Quick USA	O31660	ONFLOOR Technologies, LLC	S13632
CS Unitec Inc	O31365	OTTO BAIER GmbH	O30358
CSDA (Concrete Sawing & Drilling Association)	C4433	PDi Magazine	C4224
DDM Concut Diamond Tools	C3539	Pearl Abrasive	S10248
DDM Concut Diamond Tools	C4439	Power Curbers & Power Pavers	C5611
Decorative Concrete Council & Concrete Polishing Council	O40537	Power Pusher, Div. of Nu-Star, Inc.	S12651
DEUTZ Corp	N1837	POWERTRACK INTERNATIONAL LLC	C7467
DeWalt	O30166	PR Diamond Products, Inc.	N2349
Diamond Blade Warehouse	S11413	Proline Decorative Concrete Products	O40941
Diamond Products	C4880	Proline Decorative Concrete Products	S12239
Diamond Products	O32170	Robert Bosch Tool Corporation	O30200b
Diamond Products	O32170a	Runyon Surface Prep Rental & Supply	S12339
Diamond Speed Products, Inc.	S13319	SANY America Inc.	C7013
Diamond Tools International/Golz	S12439	SASE Company, LLC	O41035
Diamond Vantage	C3541	Scanmaskin	O31918
Diamond Vantage	O31552	Scanmaskin	S11639
Digga North America, LLC	C6077	Stihl Inc	C4631
DITEQ Corporation	C4802	Sunbelt Rentals	S10348
DITEQ Corporation	O31864	Superabrasive, Inc.	O30840
DMITOLS.com	O31569	Superabrasive, Inc.	O31034
Dongying Jiangxin Grinding Tool Co., Ltd	S12119	Superabrasive, Inc.	S10539
Doosan Infracore North America	C5577	Syntec Diamond Tools	S13613
Dustcontrol	S12253	Sysdyne Technologies	N2171
Dustless Blasting	S12913	Terrco, Inc.	O32140
Dustless Technologies	S12551	Texas Diamond Tools, Inc.	C3316
Eagle Industries	S12215	Texas Pneumatic Tools Inc	S13100
Epiroc USA LLC	C7291	TITAN DIAMOND USA	S13256
Ergodyne	CES10	TM Floor System	O31044
E-Z Drill Inc	C4155	Tru-Cut Inc.	S12954
Fujian Xingyi Polishing Machine Co., Ltd	O31164	US Saws	O40949
Fuzhou Bontai Diamond Tools Co., Ltd	S11618	US Saws	S11207
Geith	C4102	US Shotblast Parts & Service Corp	S12238
GelMaxx	S11020	Wacker Neuson Corporation	C6383
Genesis Attachments	C4529	Water Treatment Solutions	N337
Gensco Equipment	N2923	WerkMaster	S12126
Global Polishing Solutions	O40859	World Diamond Source Inc	S10901
Global Polishing Solutions	S10515	World Diamond Source Inc	S10905
Graco Inc	O40312	Wuhan Wanbang Laser	
Graco Inc.	S11751	Diamond Tools Co., Ltd.	C4864
Hatz Diesel of North America, Inc.	C4043	WUXI TONGSHENG	
Hilti	O30699	DIAMOND TOOLS CO.,LTD	S12214
Hilti	O30700	XIAMEN M&R DIAMOND TOOLS,LTD	S12216
Hilti, Inc.	C4840	XIAMEN METOOL	
Husqvarna Construction Products	C4249	DIAMOND TOOLS CO.,LTD	S11613
Husqvarna Construction Products	O31611	Xi'an Xing Hui Diamond	
International Grooving & Grinding Assn	C4328	Carbide Tools Co., Ltd	S11345
Jetstream of Houston LLP	S13339	Xtreme Engineered Floor Systems, Inc.	S13407
JK (Thai) Diamond Tools Co., LTD	C4964	Zhengzhou Sinoblade Industrial Co., Ltd	S11339
Jon-Don Inc.	O31246	ZipWall	S12610
		Zurn Industries, LLC	S12617

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The all entire range of hydraulic attachments has been completed the demolition line: rotating pulverizer WRC, the multi processor WMJ ideal for high reach and to interchange in special needs, and the new WSS scrap shears up to a 100 ton excavator and with the most powerful cutting force. The forestry line has just been launched and will be introduced at conexpo, from wood crusher to grab to offer a very high quality product at affordable price. The customers feedback is very impressive as they are getting exactly what they want, more than expectations. Drivers very happy, owners satisfied of their investments which will give impressive results in the long term considering also the attention to environment, saving fuel and less pressure needed from pumps with still better performance than any other brand in terms of speed and power. If you would like to become the dealer of Next Generation Attachments: Contact us!

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NEW PRODUCTS FOR DEMOLITION AND RECYCLING

at Ecomondo 2019

PDi Magazine paid a visit to the green technology exhibition Ecomondo to find out what products and innovations have been developed for the construction and demolition sector to contribute to the circular and green economy.

Lots of visitors and lots of sectors best describe this year's Rimini show Ecomondo. Manufacturers of construction and demolition equipment comprised but a small portion of exhibitors, with one of them being Bari based hydraulic hammer manufacturer Indeco. Its latest product, the IRP 5 X, belongs to the IRP X range of rotating pulverisers and is described as the ideal workmate for excavators from 6t-12t. "We premiered it at bauma earlier this year," explains Francesco Raco, area sales manager. "This is the smallest crusher we have, with a maximum jaw opening and a 360° rotation, as well as wear plates and interchangeable teeth." In addition to the IRP 5 X, Indeco's booth also featured the IMG 1700 S, a series of multigrabs and the steel shear ISS 20/30.

New management software from EmiControls

Also present was EmiControls, based in Bolzano in North Italy, which specialises in dust, fire and odour protection. It has just released CURT, management software for the automatic monitoring and control of dust controllers and systems. "We saw the need for software

like this," says Monika Zipperle, marketing manager of EmiControls. "You can install it on a regular computer, manage your dust controllers through the software and connect it to several different inputs." EmiControls also exhibited its dust controller V12S as well as the stationary fire protecting turbine FT10E and odour controller V12SO.



Monika Zipperle together with CEO Francesco Fritz.

Brokk presents the 'smallest demolition robot in the world'

At Brokk's booth, right next to the large Brokk 170, was a remarkably small product, the Brokk 70, described as 'the smallest demolition robot in the world'. The Brokk 70 is aimed at safe, mechanized and efficient demolition in confined spaces. It packs more than 100% more



Brokk's managing director Roberto Ruberto.

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Francesco Raco, Indeco area sales manager, standing by the new IRP 5 X.



Paolo Mantovanni by the MS22.



Simex's marketing and communications manager Alessandro Ferrin, with the TFC 50 and TFC 100.

demolition power than its predecessor and features the latest Brokk 'SmartPower' technology, as well as a fine tuned hydraulic system. The SmartPower electric powertrain increases power from 5.5kW to 9.8kW enabling the demolition robot to power a breaker twice the size, but with 100% more power than its predecessor. The combination of SmartPower technology and Brokk's upgraded hydraulic design leads to both smoother and more precise movements, making the machine faster to operate. Other products featured were the BHB 205 breaker, cutters and shears from Darda as well as the 'Ergo Go' starter kit from hydrodemolition equipment manufacturer Aquajet.

Mantovanibenne updates product line

Mantovanibenne exhibited its demolition and sorting grapple SGR 1200, the concrete crusher CR5 and Eagle Shear's SH140R, to name but a few products, with the Mirandola based company emphasizing its update of the MS22R line. "They will be redesigned and optimised for more speed and power," says Paolo Mantovanni, who continues, "Mantovanibenne has been in the market for 56 years. In the past 28 years, we have diversified demolition equipment. We have good experience in the field, because of this experience, we have improved the line."

New patented cutter heads from Simex

Simex highlighted the TFC 50 and TFC 100, its new patented cutter heads with continuous cutting, specifically designed for mounting on mini excavators. The system allows the whole width of the attachment to cut

without gaps at the centre or side footprints. The company describes it as quiet and precise, as well as versatile and high performing when it comes to tasks such as crushing roots and tree trunks as well as milling asphalt, concrete and plaster. The TFC 50 offers a 370mm cutting profile width and a 230mm cutting profile drum diameter. The TFC 100 offers a 480/430mm width (narrow drums for increased penetration) and a drum diameter of 260mm. Some of the other products exhibited were the CBE crusher bucket and VSE screening bucket.

WLP shows Demolitor 70

Trento based dust suppression system manufacturer WLP exhibited its new Demolitor 70, which has a dry total weight of 600kg, installed power of 11kW, and a IP 55 protection rating. It also features a 360° rotation, an elevation of -10° / +40° and a minimum pressure of 0.5bar. "It also features reduced noise and a throw distance of 50m," explains Mario Passeri, owner of WLP, "This is a typical machine for rental." WLP also exhibited the Demolitor 50 and the smaller Demolitor 10.

New shaft screener from MB Crusher

MB Crusher presented the MB-HDS314 shaft screener which features efficient hydraulics, a compact and stable design, replaceable shafts all at a weight of 1.4t, with 225bar and a load capacity of 0.9 m³. The shaft screeners have a patented system for interchangeable shaft kits which can be carried out by the machine operator on site and in safety. Areas of application for the shaft screeners

includes recycling, utility work, composting, industrial areas, remediation, fine sifting and crushing asphalt.

The latest from VTN

Excavator attachment manufacturer VTN presented products from its CI hydraulic scrap shear series, the RP2000 rail cutter and the handling and demolition grapple MD210. VTN recently released its 'LinkoMatic' a quick coupler system for tool changeover, either with or without the need for hydraulic connections, without the operator having to leave the cab. The system is compliant with EN 474-1 and ISO 13031 and features an integrated hydraulic hook up and connection protection. It prevents hose damage and is environmentally friendly due to the prevention of oil spillage.

Other companies and products at the exhibition included Arjes, Komatsu, Merlo, Doppstadt, Sennebogen, Zato, Rozzi and Gauss Magneti, to name but a few.



VTN exhibited products from its CI hydraulic scrap shear series.

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Delete pulls the plug on two power plants in Pori



"To overcome the project challenges, Delete brought a large fleet of heavy-duty equipment to Tahkoluoto".

Delete Demolition Ltd., a Helsinki based specialist demolition and recycling contractor, is doing its bit for the environment by helping decommission two coal fired power plants in western Finland. Andrei Bushmarin reports.

Finland is one of the world's most environmentally conscious countries. For the past decade, the Finnish government has been actively pursuing a policy of carbon footprint reduction. In November 2016, it approved the National Energy and Climate Strategy that should result in an 80-90% reduction in greenhouse gas emissions by 2050. Phasing out coal for energy use is an integral part of this strategy, with Delete Demolition Ltd., a Helsinki based specialist demolition and recycling contractor, is doing its bit for the environment by helping decommission two coal fired power plants in western Finland.

The Tahkoluoto power plant is located on the sea-front of Pori, some 30km from the town centre. Commissioned in 1976, this coal fired facility has undergone a number of upgrades and modernisations over the years aimed at raising its environmental standards. In 1993, a flue gas desulphurization plant was added, followed by the installation of low NOx burners to reduce nitrogen oxide emissions a year later. In 2006, the combustion technology was modified to further lower nitrogen oxide emissions. All those measures notwithstanding,

the plant's operations were first suspended in late 2015 and then its operator PVL, a fully owned subsidiary of energy giant Pohjolan Voima, made the decision to dismantle it by 2020.

Delete wins the turnkey bid

In 2016, PVL announced a turnkey tender for the demolition of the Tahkoluoto plant in which all major contractors based in Northern Europe were invited to



Site engineer Hannele Nousiainen is standing next to the Hitachi 1200 excavator used for dismantling heavy steel structures at Tahkoluoto.

participate. The objective was to clear the site to the ground level with the exception of the turbine hall. All machines and infrastructure in the turbine hall were to be removed, but the building itself would be reconstructed by the specifier for further use. Delete was chosen on the grounds of the proposed demolition method, its safety and environmental protocols and competitive pricing. In early July this year, Delete deployed a team of some 20 operatives headed by project managers Raimo Hantunen and Petri Kuusisto along with site engineer Hannele Nousiainen to Tahkoluoto to get the demolition process started.

Multiple challenge demolition project

Apart from the typical industrial demolition challenges - massive heavy structures, dizzy heights (up to 60m) and the presence of asbestos - there are some site specific obstacles that the Delete team has had to overcome at Tahkoluoto. These include a non-standard boiler construction, an active high concentration ammonia line going through the site and the requirement to keep the turbine hall intact, which restricts manoeuvrability. An adjacent power plant, which is still operational, further limits onsite mobility. Last but not least, there is a whopping volume of steel to process, currently estimated to the tune of 10,000t. To navigate these obstacles, Delete brought a large fleet of heavy duty equipment to Tahkoluoto. A demolition specified Liebherr 974 excavator with a 41m boom is tackling the high reach side of the project. Two material handlers - a 40t Liebherr machine and a model with an elevating cab - are being used to collect and take away demolition debris. Two bobcats and a few other telescopic handlers take care of day to day lifting and hoisting tasks while a Hitachi 1200 excavator is employed for dismantling heavy steel structures.

Upholding circular economy standards

In line with circular economy fundamentals, the materials that the boiler at Tahkoluoto is made of will be reused through smelting. If everything goes according to plan, Delete will finish demolishing the Tahkoluoto facility in late March 2020. In parallel, the Finnish contractor is preparing for the upcoming demolition of another coal fired power plant located in the neighbouring town of Kristinestad. The full scope of demolition work in Kristinestad is now being evaluated, with completion projected for late 2020.

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