

Associations
**IACDS DIAMOND
AWARD 2019**

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HERE, THE SAW IS THE LAW!

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GREATER
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THAT COLLECTS THE
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Website: www.pdworld.com
ISSN Registration: ISSN 1650-979X

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The magazine PDI, Professional Demolition International is published five times per year with a worldwide circulation of 10000 copies. The annual airmail subscription rate is US\$ 45. All subscription correspondence should be directed to: The subscription department, SCOP AB, P.O. Box 786, SE-191 27 Sollentuna, Sweden. PDI is mailed by second class postage. ©Copyright SCOP AB 2000-2019

PDI Magazine is a member of the following associations:



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WHERE EXPERIENCE COUNTS

She brought the super tanker back into the right direction

Firstly, may I introduce myself to you, for those who do not know me yet: my name is Michael Findeis, I am 49 years old, and a contractor with my company based in Nuremberg, Germany. The company was founded by my father in 1974, and I have worked in the concrete sawing and drilling industry almost my whole life, entering the family business in 1998 as an operations manager. Since 2008 I have been chief executive officer, and now work with the third generation of the family within the company. I am chairman for one of the IACDS German regions, a member of the wage and salary committee for seven years, and the German delegate to the IACDS for past three years.

Since Sunday, 14 April 2019, I have also been the president of the IACDS. Following Julie White as president means trying to step into her footprints, which are high heeled, and despite this, they are even bigger than a grizzly bear!! I really have to say: 'Thank you Julie for four wonderful years in which you brought the super tanker back into the right direction.'

The bauma 2019 exhibition is now history, and having spent several days at the show I must say that this amazing event was a great success for the manufacturers and the contractors who came there from all over the world. It was a great pleasure to speak to many of them, and see them at the Diamond Award ceremony. This year, it was the first time that we had so many extraordinary jobs submitted, that it was a real hard decision to find the one winner. For me they were all winners, and I thank you all for having taken part in this event.

The concrete sawing and drilling industry is a very small and unique industry with many companies that have been in the market for many, many years, and I can truly say that it is a pleasure for me to work in this industry getting to know so many amazing people. We should consider ourselves kind of competitors within a family and group of friends instead of enemies; this being the experience I have gained through the years of attending international trade shows and conventions. We can learn so much from each other, moving the industry and standards of our work forward. We should always bare this in mind, and aim for this both nationally and internationally.

That is in my opinion the great benefit of being a member of an international association like the IACDS. We try to bring people together, to offer them a neutral platform to share knowledge and help each other to become better at what we do, and in so doing improve our industry. The better we all become, the more awareness we achieve in the market as constructive members of the construction and deconstruction industries. The business world is becoming truly global and it won't stop at our industry's door. On the contrary, we will be played against each other if we don't pull together. This is a reason for knowing your competitors, making it harder for our customers to play us off against each other.

Since Julie took over four years ago, the work at the IACDS has become more dynamic, and now that we have 'more life' in the IACDS, we will try to engage more national associations to become members and share their knowledge with our other members. We will start the process to make the ÖNORM B 2253 a European standard; this would be a great step forward in establishing an international standard for our industry.

The situation however that has seen one of the big players of the European Union probably exiting the community must in my opinion, be said to be sending the wrong signal to the world. One is always stronger when we are together than when are alone, even if we do not always agree in every discussion. Let's be strong together, and work for a better sawing and drilling industry worldwide.

I would like to thank all members of the IACDS for the trust they have shown me in making me president of this great organisation.



Michael Findeis, President of IACDS

Words from the past IACDS President



'I did it my way'

And now, the end is near...so, this is my final column as president of the IACDS. It's been an amazing four years, and I have thoroughly enjoyed it. I am proud of what we have achieved, and look forward to working on the board as a past president. We will have a very strong and safe pair of hands in Michael, although I am not sure whether I should take his comment about my footsteps being like those of a grizzly bear as a compliment or not!

As all of you already know, I am a big believer in this industry, and I am a passionate advocate of this association, with the past four years making my belief even stronger. When I took on the role, I wanted to inject my own personality into the IACDS. In my very first column, I referenced the role my dad played in the association, so I had both personal and professional reasons for wanting to make a success of being president.

It was important to me, and to all of us, that we attracted more associations and companies from around the world. Some, maybe, hadn't really understood the benefits of being part of this global network, and it was our job to show them why it was worth getting involved. I believe the industry has evolved to the point where companies will not give up their hard earned money and time unless they can see very real and tangible benefits to their business; that's something that has changed even more rapidly in recent years.

If we work as one though, we don't need to reinvent the wheel. One country might face an issue which gets solved, and then another country might face it a couple of years down the line. Rather than starting again and coming up with a

solution, we can follow what has already been done to save time and money.

We have drafted in new blood and have grown our reach into new territories, bringing more contractors and suppliers together. There has been a dramatic rise in the number of entries for the Diamond Awards, with more companies from more countries showcasing their amazing work from all over the world.

One matter that has been talked about at length is a global accreditation to align standards and to help those nations that don't have the same guidelines for construction that many others do. We are not there yet, but we have made dramatic progress on this over the past four years, which is something I am extremely pleased to have been part of.

I have achieved what I set out to achieve in seeing numbers grow and a renewed energy and vigour about the association. As I said at the beginning, I will be staying on the board to support the new president. So unlike the UK in Europe, I will be remaining, and will be only too happy to serve our new German president!

Seriously, Michael has been a big help to me over the past few years, like so many of you have, and it's been a real team effort to move the IACDS forward in the way we have. I will be pleased and proud to support the continued effort to keep moving forward, and I am sure you would all agree that during my time as president of this fantastic international association, I did it 'my way...'

Julie White, Vice President of IACDS
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bauma, Demtech and Indian Demolition Association

Life is slowly picking up again after bauma, but the German show is really energy consuming in many ways. It is a great show, indeed, but it demands a lot both in terms of time and money. So let's hope for 'payback' over the next three years. Many manufacturers have been struggling during the months before the show to finalise new products so they could be displayed at their booths. Some succeeded, some not. Some were brave enough to say that we aren't showing any particular new machines or equipment at bauma as 'we don't follow that cycle', but the majority in our industries brought new products to the show.

The fact that bauma this year attracted over 620,000 visitors shows that it can be of major benefit to have something new to show at the exhibition, and this year's bauma was indeed the best in many years, with more new developments and upgrades than ever before. This meant that attendance was higher than ever before, as was the number of exhibitors. PDi's round up of the show is featured later in this issue, but there are some points and trends of this year's bauma that are worthy of mention. This includes a focus on environmental aspects of equipment and services, both in terms of reducing negative emissions and the effect on the working environment. High cycle equipment is continuing to increase and are getting smaller, lighter and more powerful. Since Stihl launched the industry's first battery powered cut off machines with diamond tools at bauma 2016, other manufacturers, such as Husqvarna, have followed with new battery powered machines launched at this year's show.

In conjunction with bauma, the IACDS association held a special networking event, which gathered a large number of industry professionals from all over the world. The winners of the IACDS Awards were also named at this event, with more about that in a separate article in the magazine. On Sunday, the last day of bauma, IACDS held its annual meeting. There were a lot of points of interest on the agenda, but the biggest news is that the association has elected Michael Findeis as its new president. I would like to take the opportunity to congratulate Michael on his new position, and I am looking forward to working in close cooperation with him and the IACDS. Leaving president Julie White will remain on the board as vice president supporting Michael in his work. I would like to thank Julie for four great years of cooperation, and her very inspiring columns in this magazine. In this issue you can read columns from both Michael and Julie.

As usual PDi Magazine had its own booth in the A1 hall at bauma, and this year the staff consisted of seven people. And I can say that the amount of news at this year's show kept us busy all week. As an indirect result of bauma, I am happy to announce that PDi Magazine has been chosen as media partner for India's first dedicated conference aimed at demolition concrete cutting, remediation and recycling. The conference is called Demtech, and will be held in Mumbai on 13 November this year at the Hotel Sahara Star. At the conference, India's first

demolition association will be inaugurated under the name of IDA (Indian Demolition Association). Organisers of the conference are IDA and PDi Magazine in cooperation with Riverbends Publishing. More information about Demtech and the IDA can be found later in this issue in a separate article, or on the websites www.demtech.in and www.indiandemolition.in.

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CASE appoints new head of sales and marketing

CASE Construction Equipment has announced the appointment of Nicola D'Arpino as head of sales and marketing for Europe. Following a 16 year career within the CNH Industrial Group, D'Arpino brings a wealth of knowledge to this role from his work within the construction industry. D'Arpino will succeed Jose Cuadrado, as Cuadrado moves to take the position of vice president of aftermarket solutions for CNH

Industrial. D'Arpino's appointment follows changes to CNH Industrial's global executive committee in January 2019. This enhances the organisational structure to focus on five global operating segments: construction, agriculture, commercial and specialty vehicles, powertrain and financial services. The construction segment continues to be led by construction president Carl Gustaf Göransson.

European construction equipment remains on the growth path

2018 was the strongest year for the European construction equipment sector since the economic crisis of 2008/09. Sales in the European market grew by 11%, with the absolute market level now 10% below its 2007 peak.

There has been a growing momentum over the year, after a 5% sales increase in the first quarter (compared to Q1 2017); growth was at 8.5% and 9.4% in the second and third quarter, respectively. The last quarter even saw an unexpected boom with sales growing by 15% year over year. These are the main findings of the CECE Annual Economic Report 2019.

Performance in 2018

Most regions in Western and Northern Europe saw steady growth, which were already experiencing growth, with many of these markets reaching new and historic record levels. Southern Europe, Central and Eastern European markets continued their recovery, and grew at above average levels, whereas Russia confirmed the positive trend of the previous year, with the Turkish market being the negative exception.

Sales of earthmoving equipment in Europe (including Russia and Turkey) grew by 9.6%, thereby surpassing 2008 levels. Sales of road equipment in the European market went up by 12%; similar to earthmoving equipment this saw sales reach their highest levels since the economic crisis ten years ago. Building construction equipment was once more the best performing of the sub sectors in 2018, but as the recovery of this segment continues, the sales growth of concrete equipment and tower

cranes is getting less dynamic vis à vis the road equipment and earthmoving equipment sectors. Still, the very positive effect is that after four consecutive growth years, recovery is at an advanced stage despite a still existing and rather strong North-South disparity.

Outlook 2019

The general outlook is not expected to change significantly in 2019. Along with the expanding construction and mining sectors, and backed by growing commodity prices, the global construction equipment industry is expected to remain on a growth path, albeit with a somewhat slower momentum (given that China with the highest leverage of all markets will probably not continue its growth at a comparable pace). Naturally, at the end of what has been a rather long upward cycle, it is not realistic to expect in 2019 the same levels of growth as in 2018. "As a result, the forecast for the European construction equipment market is for sales to be between 0% and -5% in 2019", says Sebastian Popp, economic expert at CECE. "This would still represent a good year for the industry and is by no means bad news."

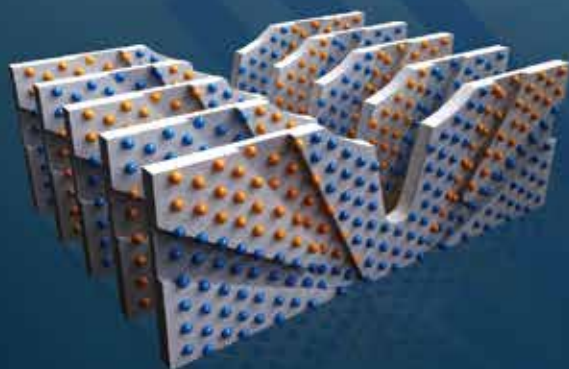
About the report

The CECE Annual Economic Report contains sections on the macro economic situation, the performance of the construction sector, the main markets and main segments of the European construction equipment industry. The report includes information from the national CECE member associations. The full report with detailed figures and graphs can be viewed and downloaded online.

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Words from the EDA President

The evolution of associations follows the growth of the industry

This year, bauma has generated the best results in the exhibition's 65 year history, with more than 620,000 visitors. This is just one example of the industrial growth that different European countries are experiencing.

Last year we could already see good figures for the Euro area and for the European Union as a whole, with growth forecasts for this year also being positive. This is a result of both stronger cyclical momentum in Europe, where labour markets continue to improve, the economic outlook being particularly high, and a stronger than expected pick up in global economic activity and trade being experienced.

This positive situation for our industry is reflected in the evolution of the national associations that shows great activity, not only with publications (such as the industry report that we are starting to prepare), but also with meetings and awards that prove the strength of the industry and its members. We can mention many examples, but now we will only focus on two.

In March, the NFDC (National Federation of Demolition Contractors of the United Kingdom) held its annual meeting and awards ceremony in order to recognise the best work in demolition, innovation, health, and safety. This kind of event provides a good opportunity to showcase the expertise, the knowledge and the good practices in the demolition industry. The NFDC is also preparing its Demolition Expo 2019 (from 4 to 6 July), the biennial trade fair where it will be possible to see live demolition in action, with opportunities provided for networking and discussing new business. A demolition party to which even the family is invited!

The French Demolition association, SEDDRé, celebrated a new edition of Rencontres des métiers, its annual event, from the 23 to 25 May in Nantes, where deconstruction and recycling stakeholders met and discussed current issues, while manufacturers and suppliers presented their latest products and services. The association also dedicated a special day to acknowledge these developments

that helps improve our industry. The Prix de l'innovation highlights these innovations in the fields of demolition, asbestos removal and concrete cutting.

Both the above are open events that show the health of associations at the European level. Not only by the ability to attract professionals of deconstruction and recycling to exchange information, but also to generate debate on how to keep progressing, and also to recognise the best jobs, products, innovation, improvements and practices that demonstrate professionalism in the industry. Hence, it makes me very proud to see how these associations show their importance and value to the industry they represent.

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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www.europeandemolition.org



Francisco Cobo, President of EDA, European Demolition Association



Hilti continues profitable growth

Continued investment sees the Hilti Group benefit from a positive market environment to again record double digit growth.

Hilti Group sales in 2018 increased by 10.7% (€4.96B) with local currency sales growing by 9.8% and operating profits increasing by 7%. "2018 was a dynamic and important year for us. We used our strong financial position and the continuing positive market environment for significant investments for the future. We invested more than ever before and continued the consistent implementation of our Champion 2020 strategy," chief executive Christoph Loos summarised. "We are pleased with our annual results, which

are within our expectations. We are confident in the current focus of the company and have therefore decided to extend the timeline of our Champion 2020 strategy by two to three years. Within this timeframe, we will continue our investments into digitalizing and modernizing the company."

Despite these positive results, the reduction in the dynamic of the global economy and ongoing trade tensions, the Hilti Group sees a more challenging environment and lower market growth for the current business year. As a result, sales and operating profit are expected to increase in the range of medium to high single digits.

Indeco focuses on marketplace needs

Founded in 1976, the Italian hydraulic breaker manufacturer Indeco Ind. S.p.A., aims to predict and react to the needs of the marketplace through its country wide sales networks and after sales service facilities. This directly leading to the company's continuing track record of product development.

After many years of developments including the world's first 'intelligent hammer', a range of fixed and rotating pulverisers, and multifunctional hydraulic grabs designed specifically for demolishing buildings and vertical structures, Indeco in 2004 launched the new series of 'High Performance' HP breakers. These possess a novel design, using brand new materials and delivered lower noise emissions. The breakers were followed in 2008 with the world's biggest hydraulic hammer, 4.6m high and weighing 11.05t. In 2019, Indeco launched its new range of IMH boom mounted mulching heads, powerful land clearing tools for felling and clearing vegetation. New product development has continued, with Indeco launching new products such as hydraulic compactors, hydraulic shears, demolition sorting grabs and pedestal mounted breaker boom systems.

Now the company is able to stay even closer to its customers via partnerships

in much of Europe, particularly in France, Spain, Portugal, Germany, and the United Kingdom, as well as being a leading player in Italy. This focus on the Northern European market recently led to the acquisition of a Dutch company, followed by the setting up of Indeco Northern Europe and the launch of Indeco Deutschland to serve the German market. Indeco is also present in the American market as Indeco North America. Furthermore, Indeco Australia, Indeco UK, Indeco Mexico, Indeco Brazil and Indeco Asia Ltd have been founded, and in 2009, Indeco established a sales office in Russia.

There have been several further additions to the Indeco product range, such as improvements to the hydraulic system on all hammers, and a broadened and rationalised catalogue. There will be technological upgrades and design improvements for most products in the catalogue, undertaken on the basis of specific feedback from Indeco's customer base.

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Max saw blade diameter	1600 mm
Max cutting depth with max Ø blade	715 mm
Max start Ø blade	830 mm

Weight

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Max output power

18 kW

Max output torque

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IP classification

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Epiroc acquires South African manufacturer New Concept Mining

Epiroc has completed the acquisition of New Concept Mining, a South African manufacturer of rock reinforcement products for underground mining.

New Concept Mining is based in Johannesburg, South Africa, and also has facilities located in Peru, Zambia and Canada. It manufactures a comprehensive range of underground mining roof support products, rock monitoring systems and related accessories. New Concept Mining has about 900 employees and had revenues in 2018 of approximately €600M. The company is registered as Innovative Mining Products (Proprietary) Limited, but trades and is widely known as New Concept Mining.

Epiroc announced on 6 November 2018 that it had agreed to acquire New Concept Mining. The purchase price is not material relative to Epiroc's market capitalisation and is not disclosed. The business becomes part of Epiroc's Rock Drilling Tools division, and will continue to be based in Johannesburg.

Siltbuster sells 'Gritbuster' to Doppstadt

Siltbuster Group, the UK's water treatment specialist, has sold its Gritbuster range to the Doppstadt Group after working collaboratively on wet waste separation technology for five years.

Following the sale of its Gritbuster technology to Doppstadt, Siltbuster will concentrate on further developing its core business in providing innovative water treatment solutions, both for hire and sale, on a global scale. Dr Richard Coulton, managing director of Siltbuster, comments: "This is not the end of the relationship as Siltbuster will be continuing to supply technical support and water treatment solutions to Doppstadt whilst allowing both companies to concentrate on what they do best: Siltbuster water treatment and Doppstadt materials recycling."

The Gritbuster technology acquired by Doppstadt can recover aggregates to a very high standard from a variety of waste streams, including building rubble, mixed construction waste, gully waste and road sweepings. Moving forward, Doppstadt will continue to develop and sell the Gritbuster technology. Sebastian Kemper, managing director of Doppstadt Systemtechnik GmbH, concludes: "By purchasing the Gritbuster technology, we have rounded off our range of innovative cross sector solutions that use water to separate out waste."

Doppstadt, is a family run company with headquarters in Velbert, Germany. Founded in 1965, it began by developing and building agricultural machinery. The company is now a leading provider of a full range of equipment that encompasses every sector involved in environmental technology and the recovery of reusable materials.



Liebherr-France SAS invests €5M in new assembly line

Liebherr-France SAS based in Colmar, has placed a new assembly line into operation. It is based on the principles of lean management, and will thus contribute to further improvements in quality and productivity.

Overall, the company has invested €5M in the production line which is designed to produce the latest generation of Liebherr crawler excavators. These were launched worldwide earlier this year as the 'Generation 8', consisting of the R 922, R 924, R 926, R 930, R 934, R 938 and R 945 models. With logistics that are opti-

mally geared to production, the new assembly line achieves average cycle times of 155min per station, with an output of five excavators each day. Altogether, the 'R3' assembly line has 26 work stations and nine preassembly stations synchronised with the main line.

With a workforce of over 1,500 employees and annual production of 2,000 machines, Liebherr-France SAS located in Colmar, is the main production location for earthmoving crawler excavators for the Liebherr Group. The standard production range comprises

around 30 crawler excavator models ranging from the R 914 Compact to the R 980 SME for earthmoving and for use in mining. Production also includes a large number of special machines for special work requirements, such as the deconstruction of buildings, material handling, maritime applications (pontoons) or tunnel construction applications, as well as electric excavators. Crawler excavators with an operating weight of 14t to 100t are equipped with Liebherr engines with power of 90kW to 420kW.



Solix acquires Terratech, Steelwrist and SVAB Hydraulik

The Swedish investment company Solix has recently acquired all shares in Terratech AB, Steelwrist and SVAB Hydraulik companies.

Steelwrist is considered to be a world leading player in the market for tiltrotators, quick couplers and work tools for excavators, while SVAB Hydraulik is focused on control systems for tiltrotators and work tools, mainly for excavators. Terratech AB is today established with its own operations in 13 countries. Among the company's main products are tiltrotators and quick couplers, both hydraulic and fully automatic, which today enjoy strong international growth. In addition, Terratech has launched several new products including Tool Recognition, Tool Tip Control and the Quantum control system platform, whilst Steelwrist and SVAB work closely with several excavator manufacturers.

The acquisition will focus on the opportunities to further develop the OEM business of the companies. "We have a very good and forward thinking cooperation with our OEM customers," says Stefan Stockhaus, chief executive of Terratech and Steelwrist. "Our tiltrotators and quick couplers are increasingly mounted on the excavator directly from our customers' excavator factory, and with this we are able to support our own and our OEM customers' international expansion even faster. Also product development together with our most important customers will continue to be very high on the agenda."

The acquisition of the companies is part of Solix's strategy to acquire Nordic industrial companies with a strong product portfolio and with significant international growth potential.



OilQuick receives 'Great place to work' certificate

Together with 25 other companies in the category 'Medium sized organisations 50-249 co-workers', OilQuick received a 'Great place to work' certificate.

All the 25 companies that were awarded the certificate were invited to a gala dinner on 27 March at Circus in Stockholm, Sweden. "For us, this award means a lot," says Henrik Sonnerud, chief executive and shareholder of OilQuick AB. "It is a receipt that we're doing things right, that our co-workers are comfortable in the workplace and that we're having fun together. It's important also for recruiting new co-workers."

In order to receive the 'Great place to work' certificate, at least 70% of the co-workers had to express that they are working at a good place to work, with OilQuick achieving a 91% result. This positive expression of the OilQuick workplace came from a breakdown of answers received in a web based evaluation, where all co-workers were able to respond anonymously. Additionally, the company needs to meet certain requirements in terms of culture creating activities, organisation and the way in which it achieves certain goals.

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DEMAREC, A KINSHOFER GROUP COMPANY – ACQUISITION HAMMER ITALY

The Kinshofer Group from Germany and the Italy based company Hammer S.r.l. announced that they have signed a definite agreement to merge. Under the terms of the agreement Kinshofer has acquired a majority shareholding of Hammer.

For over 48 years, Kinshofer has been a leading manufacturer of attachments for truck mounted cranes, excavators and skid steer loaders, consistently developing its product range in both, the crane and excavator markets to become a competent and reliable partner for OEM's and OED's. Previous acquisitions of Liftall Inc. (Canada), DEMAREC – Demolition and Recycling Equipment B.V. (Holland), RF System AB (Sweden), Auger Torque Group (U.K./ U.S.A./ Australia/ China), Solesbee's LLC (U.S.A.) and the Doherty Group (New Zealand/ Australia) were other important milestones of this development.

The acquisition of Hammer is significant for the Kinshofer Group in two ways; first it adds additional product segments, such as a full range of hydraulic breakers and other demolition tools and secondly, it improves distribution channels of DEMAREC and Kinshofer in markets Hammer is very strong. But not only that, the Kinshofer Group has now enhanced local manufacturing in Italy, with its Molfetta based fully vertically and very advanced manufacturing facilities, customers will be



served much quicker and with a much larger product range. With this move, the Kinshofer Group further demonstrates its commitment to being a global leader in attachments to the excavator industry.

Hammer, a 2004 established family business, puts its focus on the development and marketing of hydraulic breakers up to 15t self-weight and other demolition tools that make carriers such as excavators more effective and versatile, particularly important for small and mid-size contracting businesses seeking high utilization of their machinery. Hammer's industry knowledge is based on Mr. Giovanni Modugno's 49 years of experience combined with his son's passion and business acumen. With an extremely committed and well educated workforce, Hammer will continue to develop and sell its products globally. In order to meet the current market requirements, Hammer, DEMAREC and Kinshofer will recruit more staff to ensure a swift and professional market launch of the companies' products within either sales organization.

Thomas Friedrich, President & CEO of Kinshofer Group, said: "Kinshofer continues

its strategy to provide the industry with a "One-Stop-Shop" solution of outstandingly engineered products to increase efficiency and, more importantly, profitability of its customers. The acquisition of Hammer was the next step in our approach to be a global industry leader with solid local presence".

Marcel Vening, CEO of DEMAREC; the full hammer line complements Demarec's product range where Demarec itself does not have the expertise. It's a perfect match.

Valerio Modugno, Co-Owner and Managing Director of Hammer, commented: "The concentration of knowledge and competence will form a powerful centre for future developments customers can only benefit from. In particular the combination of both product ranges will create more ground breaking innovations for the industry. The whole Hammer management team, which will stay on in its entirety, is very excited to be part of this mutual future."

The hammer range will be on the market under both brand names DEMAREC and Kinshofer as well Hammer, depending of which market.



Angelica La Notte, Export Manager and Onofrio Modugno, Co-owner and Production Manager.

Hammer rocks the floor at bauma

Italy based attachment specialist Hammer Srl, which this year became part of the global Kinshofer Group, used bauma to showcase its latest ranges of demolition tools. These included the SB series of hydraulic breakers which feature a rugged one piece housing to increase uptime and reduce maintenance. Also on the display were the GR demolition and sorting grabs which are available in nine models to fit 1.5t to 80t carriers. The key features of the 360° rotatable grabs include a robust slewing ring, an integrated pressure relief valve to dampen any voltage peaks in the rotation motor, and replaceable and indexable blades. Last but not least were the FR rotating crushers designed for primary and secondary demolition jobs. The crusher range consists of 12 models fitting 4t to 150t excavators and are 360° rotatable, boasting an excellent power to weight ratio coming with exchangeable cutting blades and teeth.

www.hammereurope.com

NPK Construction Equipment purchases Genesis Attachments

NPK Construction Equipment (NPKCE), a subsidiary of Nippon Pneumatic Mfg. Co. Ltd (NPK Japan), has announced the purchase of Genesis Attachments LLC (USA), Genesis Holdings (Germany), and Genesis GmbH (Germany).

A major reason for the acquisition is Genesis's distribution network and dedicated employees. Genesis's scrap processing, demolition, and material handling attachments are well engineered, high quality products with an outstanding reputation in the marketplace. The acquisition of Genesis by NPK is aimed at making both companies stronger, with the expertise, experience, culture and company spirit of both businesses benefiting the combined customers and dealers, both nationally and globally.

Genesis Attachments LLC was founded in 1997 and is based in Superior, Wisconsin. Genesis GmbH was founded in 2002 as the European licensee and exclusive

sales partner of Genesis Attachments LLC. High quality manufacturing facilities are located in Superior, where 117 people are employed, whilst the counterparts in Europe have an additional 15 employees. As Genesis has been a market leader for many years, NPK does not plan on making significant changes to the business, but rather aims to combine with Genesis to continue improving the experience for dealers and end users alike.

Nippon Pneumatic Mfg. Co. Ltd was founded in the early part of the 20th century selling pneumatic tools. It has been designing and manufacturing construction equipment attachments since the late 1950's, and

in 1975 NPK Europa B.V. was established in Rotterdam, Holland. By the mid 80's, NPK was well-established as a manufacturer of hydraulic hammers, crushers / pulverisers, shears and pile drivers. In 1985 NPKCE was established to provide exclusive distribution and product support for the western hemisphere, quickly building an extensive dealer network.

In the years since, NPKCE has added manufacturing and machining facilities, transforming the company into a fully-fledged designer, manufacturer, and assembler of quality C&D attachments and pedestal boom systems. In 2013, NPKCE entered into a partnership with the German

mining equipment manufacturer, Hermann Paus Maschinenfabrik, serving as the exclusive distributor of Paus mining vehicles in the United States and Canada. This led to the establishment of NPK Mining Equipment LLC in 2018, and the launch of a new branch in Elko, NV dedicated to the sale and service of Paus vehicles in the West.

NPK worldwide has maintained the philosophy that with enough diverse products and industries, the company can withstand the challenges that every industry encounters over time. Through acquisitions, mergers, expanded products, and various new products NPK has continually worked to exceed customer expectations.



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BAUMA

GREATER THAN EVER

Held every three years in Munich, Germany, this year between 8-14 April, the 65th bauma broke records in visitor and exhibitor numbers. PDi reports.

A record 3,700 companies from 63 countries exhibited at this year's bauma, with more than 620,000 visitors from over 200 countries attending (also a record). bauma is the biggest trade show in the world as well as the world's leading construction machinery, building material, mining machines, construction vehicles and construction equipment trade show. The number of visitors rose by about 40,000 compared to 2016, with more than 250,000 visitors coming from outside Germany, making bauma a truly international event. The top 10 visitor countries after Germany were Austria, Italy, Switzerland, France, the Netherlands, Russia, Sweden, the Czech Republic, Poland and Great Britain, with the show experiencing an increase in attendance from overseas visitors. Significant increases in international visitors from China, Australia and Japan were also evident, with more than 5,500 visitors coming from China alone.

The total size of the show this year, counting inside booths and outside areas, was 614,000m². For a trade journal such as PDi it was almost impossible to visit and talk to all the exhibitors of interest (though we did try our best!) using the entire week to cover as much as we could. Beginning with PDi 1 this year, we have published articles about the new products displayed at bauma, and we will continue to do so throughout the year.

The recurring theme of the show was manufacturers' on-going efforts to minimize their products' negative environmental footprint. Achieving emissions reductions comparable to the US EPA Tier 4 Final Requirements was a milestone, rather than the end of a journey, as manufacturers are now tackling the European Union's Stage V emission requirements, as well as local directives to minimize jobsite noise, dust and other emissions. Other major themes of importance evident at the show were improved working environment and safety.

When it came to seeing concrete sawing and drilling equipment, concrete floor grinding and polishing machines, machines for dust and slurry containment and hydrodemolition, hall A1 was the place to visit. In general, it was the same companies exhibiting this year as in previous years. The large exhibitors such as Götz, Dr Schulze, Cedima, Tyrolit, Husqvarna, Hilti, HTC, Hydrotec with Pentrunder, and many more besides, were found more or less in the same locations as in previous years. This meant that the regular bauma visitor could easily find their favourite manufacturer.





Dustcontrol

Swedish manufacturer Dustcontrol is well known for its dust extractors and air cleaners. To bauma the company brought an interesting new development; a battery driven dust extractor called 'DC BattVac' for business users. Equipped with a HEPA H13 filter, the particular model was a prototype and Dustcontrol's intention is to analyse the response from the market for a battery driven dust extractor. As far as PDi is aware this is the first battery driven dust extractor on the market at the time of going to press.

Dr. Schulze

The German diamond tool manufacturer Dr. Schulze launched a new floor-milling machine, DBF-380. This is an innovative and powerful floor-milling machine with 15kW electric motor, electro hydraulic feed drive (step less adjustable, speed forward and backwards), height adjustable handle and quick lowering mechanism. Due to its high power, this machine is particularly suitable for difficult milling jobs on hard concrete floors as well as for large scaled projects. The DBF-380 possesses dual functionality and can mill with a carbide drum of 350mm width, as well as cut with up to 30 diamond blades with up to a 380mm total width, and more than 30mm cutting depth.

The German company also presented its new 40+ and 50+ drill stands: the new 40+ drill stand allows vertical, horizontal (at any angle) and stitch drilling without the need of anchoring, as well as a hand held



Scanmaskin

Scanmaskin brought the latest models from its new 'World Series' to the show. Additionally, the company also launched a new shot blaster, Ferox 300. Since grinding machines were introduced and became more popular, there have been fewer shot blasters on the market, but it now seems that a renaissance is underway. Additionally Scanmaskin also launched a new scarifier model at the show.



Jan Hermansson, met with Husqvarna Construction Products president Henric Andersson to talk about the new products, the company and its strategy. The full interview will be published in PDi 4. New products at the Husqvarna booth included the new series of 'Z Edge' diamond blades, a new battery driven power cutter K535i, a new power cutter K770 VAC, and the new floor grinder PG510.

Some time ago Husqvarna also acquired Pullman Ermator, which has also extended its offering, with a new range of models shown at bauma. Husqvarna has also acquired the compaction and concrete placement division from Atlas Copco, and has now extended the range of compactors with the remote controlled articulated trench compactor LP9505. During bauma Husqvarna officially announced its strategic partnership



Tyrolit

Tyrolit's booth proved to be quite a magnet in hall A1, attracting many visitors. New products displayed included the WSE811-MKII wall saw, an extended assortment of the wall saw blade range with TGD technology, the new light and easy to use wall saw WSE1621 with 'MoveSmart' technology, a new wire saw WCU17 and the recently CE certificated wire saw WS30 to mention but a few. Tyrolit is also celebrating its 100th year in business, and to celebrate a new compact, dry cutting assortment for the construction industry was launched. Tyrolit also showed its new assortment of floor grinders, a new table saw and the new DRS250 core drilling system.

Husqvarna Construction Products

Right next to the Tyrolit and the PDi Magazine's booths was located Husqvarna Construction Products with an impressive display. PDi Magazine's editor in chief,

with Ramirent, specifically regarding online connected products and Husqvarna Fleet Management.

Klindex

Just next to Husqvarna was located Italian manufacturer Klindex which exhibited a wide range of machinery and tools for concrete floor grinding and polishing. One of the highlights was the 'Expander 1000' floor grinder with autopilot, which is Klindex's biggest floor grinder to date. It is equipped with six heads that are counter rotating, is remote controlled, with the work pressure being adjustable and the speed being variable.

Hilti

Hilti's booth was filled with products to the last millimetre. With regards to products for the concrete cutting industry, Hilti displayed the 'Smart' series of concrete sawing systems, its latest wall saw, the Hilti DS-BG 80 with 'CutAssist', the power cutter Hilti DSH 600-X and a wide range of diamond tools.





Widecut

One of the leading suppliers of diamond wires is Widecut from Korea, and as usual, the company exhibited an extensive offering at bauma. The company proved to be a popular supplier at the show with many clients wanting to discuss their requirements, with the company displaying a wide range of various types of wires for different applications.

Schwamborn

Schwamborn displayed examples from its wide range of concrete floor grinding and polishing machinery, planers, trowels and so forth. These perhaps showed the greatest levels of innovation, along with 'Dustcontrols'. The latter is a battery powered dust extractor, being a new wall and ceiling grinding attachment for WDS 530 demolition robots. PDi 2 featured an in-depth look at this development.

Superabrasive

Superabrasive showed its new generation of electric and propane grinders called 'Lavina Elite'. Ranging from 500mm to 965mm models, this features has redesigned frames for improved manoeuvrability and faster tool changes. The range, which was first shown at World of Concrete, also comes with dust proof grinding heads that protect internal components from dust and moisture, and integrated weights for adjusting grinding pressure. A new fine misting system suppresses dust particles from 0.1 to 1000microns, while the vacuum hose connection has been relocated closer to the dust source utilising a metal camlock attachment.

Aquajet

Aquajet Systems AB exhibited 'Aquajet Ergo', a ground breaking new system for safe, effortless, and versatile industrial cleaning and hydrodemolition work. This is a completely new system that replaces all forms of hand lance work on floors, walls or ceilings. Furthermore, it's perfect for hydrodemolition operations in confined areas and wherever a robot or other kinds of larger fixed hydrodemolition equipment won't fit. At the heart of Aquajet Ergo is the advanced control unit, the 'Ergo Controller'. It works together with its arms and legs with either a spring loaded high friction roller system, named 'Ergo Climber', or a flexible rail system called 'Ergo Spine'.

A major feature of the Aquajet Ergo system is that every component can be handled, carried and transported by one person, with everything fitting in one small van or on a standard pallet, thanks to its design and the use of low weight materials. The dry weight of the control unit, Ergo Controller, is only 98kg, and none of the additional parts weigh more than 25kg. Aquajet Ergo can be delivered as a complete starter kit, with key system parts, such as Ergo Controller, Ergo Climber and Ergo Spine, being also available separately. The new 'Ergo Power Head', with Aquajet's unique 45° lance angle and adjustable oscillation, was also on display.

Ronda

The Danish manufacturer of vacuum cleaners V. Brøndum, introduced the new Ronda 1800H Power class-H dust extractor, which is available with Longopac collection system or with collection directly into a metal container. The company also presented the Ronda CF-502 pre-

separator with cyclone effect. The built in cyclone enables the separation of up to 99% of the vacuumed material into the container of the pre-separator, meaning that only a very small part of the dust ends up in the vacuum cleaner. At the BAUMA V. Brøndum A/S, also introduced a new range of Negative Pressure Units consisting of the RONDA NPU 1250, RONDA NPU 2500 and RONDA NPU 5000. All three models are powerful, robust and easy-to-use machines designed for the construction industry. Each unit is equipped with a large pre-filter as well as an effective HEPA-14 filter also with a very large filter surface which restrains the finest and most health-hazardous particles. A manometer showing the filter load is standard and on the two larger versions the air flow can be adjusted. It is possible to use all of the three new RONDA Negative Pressure Units in the room where you are working or to integrate the NPU's in your dust wall. All three models have large wheels and 4 handles which make the RONDA NPUs easy to transport.

Conjet

Not far from its competitor, Conjet showed its many latest developments. The company displayed its new interface and remote control box that is available for all 7 Series hydrodemolition robots. Furthermore, Conjet unveiled its new CWS620 water separation system, which is a new high pressure hand lance and the new PTS (parallel to surface) cutting head.

ICS

ICS introduced the new 536-E electric saw which is designed to cut concrete and ductile iron with a wide



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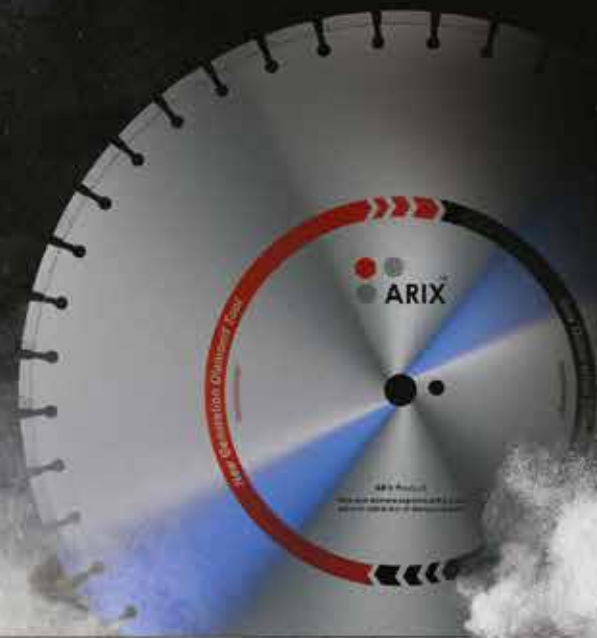


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range of cutting depths (250mm, 300mm and 350mm). The new saw has a 220-240V/50-60Hz power source and weighs 10kg. The integrated design is ergonomic and well balanced. Furthermore, ICS launched the new 'Cross-LINK' diamond chain for faster cuts, longer life and smoother handling in pipe and concrete cutting. The Cross-LINK chain is engineered to perform straighter, delivering faster cuts, improved chain stability, increased cutting efficiency, reduced operator fatigue and time spent to tension the chain.

HTC Sweden AB

HTC, now part of Husqvarna, showed its new range of smaller floor grinders and dust extractors under the concept name of 'Start & Grind', which was announced at World of Concrete earlier this year. It is simple, robust, and easy to operate, with the entry level machines being especially suitable for floor preparation, being able to tackle anything from edge grinding to polishing medium sized surfaces. These machines have been engineered for use by anyone whose experience of floor grinding is limited, but wishes to get started right away. This makes them ideal rental equipment, with a special focus having been placed on ease of handling and transportation as well as user safety.

Blastrac

Blastrac presented several new machines this year, including the new Blastrac BMG-2200 large scale ride on floor grinder, designed for large horizontal surfaces, and the new Blastrac BMR-75D multitask vehicle. The latter can be fitted with several attachments, and is ideal for shot blasting or scarifying ship decks, parking garages, bridges, roads and warehouse floors. A new range of single phase dust collectors equipped with an M or H class certified



Longopac bagging system for small and large jobsites was also unveiled. A new range of cyclone cleaning trucks engineered to deep clean outdoor surfaces efficiently and in a more environmentally friendly way than other UHP water blasting technologies was also on display.

Hydrotec with Pentruder

Hydrotec and Pentruder exhibited with a large booth located in the south east corner of the hall A1 showing both companies' full ranges of equipment. One could say that the real concrete cutting enthusiasts could be found at this booth, being able to really appreciate high quality and advanced concrete cutting technology. Pentruder showed off its latest developments, including the RS2 and announced a new generation of machines that will combine a more compact size, lighter weight and delivering more power.

Kaskod develops Cuttronix distribution channel

In one of the small booths along the western wall of hall A1, the Estonian company Kaskod exhibited. Kaskod develop what they call embedded and mechatronic systems, and displayed its new line of high cycle drill motors and wire saws. These are compact, lightweight and powerful, and resemble the Pentruder line, of which, chief executive officer of the company, Gennardy Sadovnikov, says that the similarity is due to Kaskod's previous cooperation with Tractive (the owners of Pentruder). Kaskod also announced that it is in the process of setting up an international distributorship channel for its Cuttronix range, and has already started to sell its products in Europe and USA. Dimitry Soliterman is the representative in the US.

There were of course other companies exhibiting in hall A1 worthy of mention in terms of new products. Due to space limitations in this issue we will have to come back to these developments later in the year. These manufacturers included: Dustcontrol, Gözl, Cedima, Lissmac, Dr Fritsch, Heger, Klingspor, Otto Baier, AGP, Eibenstock, Ashine, Diatop, Adamas, Ehwa Diamond, Braun, Airtec, Brøndum, Weka, Janser, Hycon, Contec, T.D.B.S, Solga, Kern Deudiam, Eurodima, Heylo, Diamantwerk and Wakra, to name but a few.

Otto Baier

Since 1938, Maschinenfabrik Otto Baier GmbH, headquartered in Asperg, close to Stuttgart, Germany, has manufactured power tools for coring, channel cutting, mixing and sawing. Baier now offers a broad range of solutions for daily work challenges, called 'Solutions for leaders'. The product range is sold and distributed in over 60 countries, enabling global customers to benefit from Baier's technical know-how and many years of experience. The continuous enhancement process of the 'made in Germany' Baier products helps to ensure that many more products are set to come. 80% of each product is manufactured in-house, with a quality control process for each machine, even those being serviced. Baier is innovation-driven since the very beginning of manufacturing history, with one of the latest enhancements being the BDN511, a new guide and the pointer. The new pointer will ease the control of the cut, and can be mechanically adjusted to the precise location required.

Imcoinsa flaunts its latest compressors

Spain-based Imcoinsa is a family-owned company that has been manufacturing machinery for construction, forestry and automotive industries since 1985. The main highlight of Imcoinsa's booth at Bauma was its latest series of compressors – the company's flagship product. The new compressors come equipped with a high-performance



head, boasting cast iron cylinders for improved resistance to high temperatures and wear, and a cooled collector. The metallic protection mesh allows frontal access to the compressor, which leads to increased robustness and safety. The machines are complete with a set of anti-vibration rubber-metal silent blocks, an outlet tap and Teflon tape.

Other halls and outdoor areas

The majority of heavy duty demolition and recycling equipment manufacturers were located in other halls and the outdoor area.

Trevi Benne

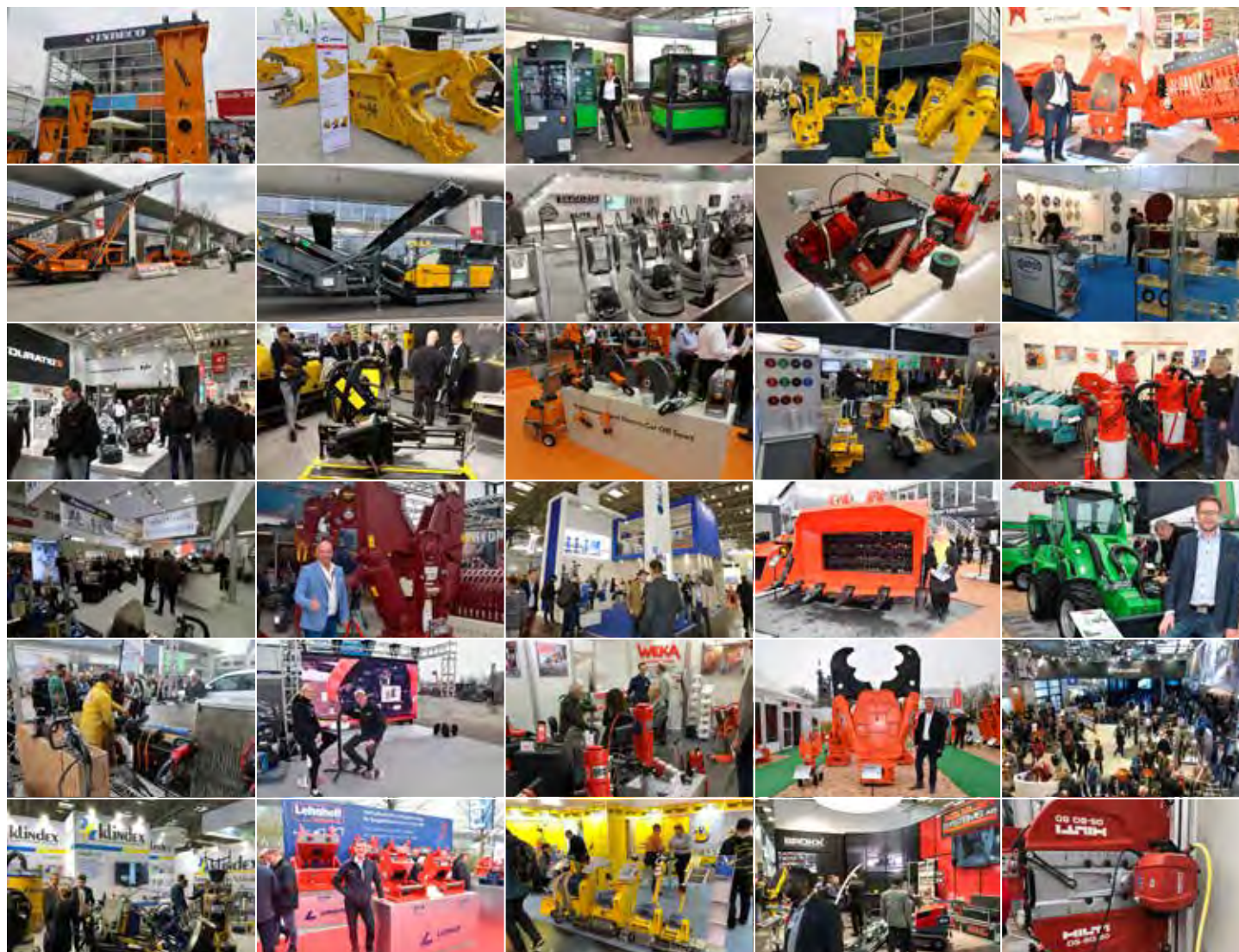
Trevi Benne had a packed booth with a large variety of different types of demolition attachments for cutting, crushing and pulverizing including the MA25 and FR75RD.

VTN Europe

VTN Europe showed a large number of demolition attachments including its new quick coupling system for hydraulic attachments, VTN 'Link-o-matic', which was featured in PDi 1-2019.

Epiroc

Epiroc unveiled several new and updated demolition tools at bauma. The major announcement was the launch of a new range of bucket screeners, BS 1600 and BS 2200, with service weights of 1,710kg and 2,450kg respectively, bringing to customers in the recycling and rock excavation business a complete solution. The two sizes are aimed for carriers between 18t to 38t, and are manufactured with a high resistant steel construction that ensures a longer lifetime in harsh working environments.



Amongst other development was a new combi cutter CC 1600, which is designed for carriers in the 13t to 23t classes. The stable cutter body features two powerful hydraulic cylinders with integrated speed valves for minimum cycle times and, in turn, minimum fuel consumption. New pulveriser jaws for the CC 3100 Combi Cutter were announced, with more models set to follow during Q2 2019. The Pulveriser jaws offer more applications within one cutter body, with the utilization of the cutter thereby being increased.

Epiroc has redesigned its MG multi grapple range to make it even more robust. This to meet the increasing demands from customers facing tougher jobsite conditions and higher utilisation of grapples in day to day work. Finally a new cutting wheel option is available for the ER/ERC 50 – ER/ERC 3000 transverse drum cutters for precision cutting narrow trenches for cables or pipes with a width of 55mm to 250mm, and a depth ranging from 150mm (ER/ERC 50) up to 700mm (ER/ERC 3000).

Demarec

The Dutch manufacturer of demolition tools presented several new products including the DCC-30 and DCC50 cylinder concrete crushers. The first model is suitable for excavators between 20t to 35t, having a jaw opening of 1,150mm, whereas the DCC-50 is for

machines between 35t to 55t with a jaw opening of 1500mm. Demarec also presented two new scrap shears, DXS-40 DXS-50. The first model has been developed for excavators weighing 25t to 32t, whilst the DXS-50 is for 35t and 50t models.

Amongst other items of interest was a multi-quick processor, MQP-30, which is equipped with two rotation motors with shock valves for extra rotation power, having a very advantageous power to weight ratio and a large jaw opening. The DRG-27 heavy duty demolition and sorting grab, which is suitable for machines with a weight from 20t to 30t, is characterised by the powerful closing strength and the robust construction of the yoke, which has a box frame with wide pivot points. The DMS05 multi shear is flexible and multifunctional being suitable for use with midi excavators thanks to the mechanical change system and a wide range of jaws.

Avant Tecno

Avant Tecno's latest development is the Avant 800 series, which is now the company's most powerful loader, being able to lift 1,900kg up to 3.5m. The new series also has compact dimensions: 1.5m width, 3.4m length and 2.2m height. The new lift 'Leguan 135 Neo' is built on an entirely new platform making it more user friendly, with all operations being handled with a single joystick, which simplifies and widens the use of the lift's boom. It

also has a lower and narrower profile than its predecessor with service friendliness being integrated into the design.

Arden Equipment

The AIO 50 is the latest all hydraulic quick hitch from Arden Equipment. This attachment is designed for the quick coupling of excavators with various hydraulic attachments such as tilt ditching buckets, Arden tiltrotors, sorting and demolition grabs, or even hydraulic concrete crushers as well as concrete and metal shears. It allows instant and direct hydraulic connection from the cab, with hydraulic hoses connecting simultaneously within ten seconds, fitting excavators from 20t to 26t.

The company has also launched the CU042 demolition shear that replaces the CU3500. This new development has an identical weight as its predecessor, but is more efficient thanks to its more powerful cylinders and new kinematics. The CU042 has 17% more power and a jaw opening width increased by 18%, being designed for carriers ranging from 38t to 50t. Also shown at bauma was the CU008 which is a new demolition shear designed for excavators from 11t to 13t. This completes Arden Equipment's range of demolition shears, which now covers all excavators from 2t to 70t.

Indeco

During bauma the Italian manufacturer held a press conference at its booth. Indeco's marketing director,

Michele Vitulano presented a number of new developments including the HP 100 micro breaker, IMP multiprocessor, the rotating pulveriser IPR 5, and a new range of hydraulic mulching heads.

Genesis

The manufacturer showed a number of the models including the new 'Genesis Razer' GRX 395 which weighs as shear variant 4,760kg, and as breaker 4,880kg. The jaw opening as a shear is 610 mm and as a breaker 1,143 mm being suitable for carriers around 40t.

Furukawa

Furukawa had a large booth outdoors showing a wide variety of hydraulic equipment including its rock drilling range. New from Furukawa were two models in the FXJ series, the FXJ 225 and FXJ 1070.

Brokk and Darda

Outdoors, Brokk and Darda shared a large area together with Kinshofer and Demarec that also are part of the Lifco Group. Brokk launched their new Brokk 70 robot and Darda two new crushers, CC580 and CC 440.

Volvo

Volvo took the chance to display its new high reach excavator.



OilQuick

The very busy OilQuick booth exhibited the company's latest developments including the new 'Front Pin Guide' (FPG), the new monitoring system 'OQ-LockSupport' (OQLS), a new fall protection system OQSH, and the mechanical lock indicator, MRL.

Riedelberger

Riedelberger showed a new quick coupling solution for hydraulic attachments.

Steelwrist

Another manufacturer of hydraulic quick connectors, Steelwrist, used bauma to release two new models, SQ65 and SQ70/55. Another development announced was the new electrical connector for SQ couplers and work tools, the V14, a robust 14 pole connector that can be retrofitted into existing SQ and OQ type couplers and work tools.

Frutiger

At this year's bauma, Frutiger presented its latest developments, including its MobyDick 'New Generation' models of water cannon for dust control. In addition, the proven MobyDick wheel washing systems, as well



as solutions for the automatic cleaning of heavily soiled construction machines were exhibited. The New Generation models of the water cannon line for dust control is based on a system developed in collaboration with the Zurich University of Applied Sciences (ZHAW), supported by the Innovation Promotion Agency of the Swiss Confederation. The innovative models have a range of functions that is unique. The 3060 and 3090 models have a throw distance, power consumption and noise emissions, as well as the amount of water used, that can be adapted precisely to the operating conditions. The high performance cone developed with the ZHAW ensures efficient operation with water being able to be sprayed either through the nozzle ring (large area) or the nozzle head (concentrated). The droplet throw can thus be adapted to the respective operating conditions, proving ideal for demanding applications with throwing distances between 10m and 90m.

In addition to the above, and the well-known k wheel washing systems, Frutiger also presented its solutions for cleaning heavily soiled construction machines. This still new product area (demucking) met with great interest at bauma, with numerous operators of large construction machinery fleets showing great interest in the automated solution.

At its 16th participation at bauma, Frutiger clearly underlined its worldwide leading role in the field of wheel washing systems, dust control and demucking. It is particularly pleasing that this year's show is one of the most successful trade fairs in the history of the Swiss company. Frutiger would like to thank the numerous visitors and looks forward to welcoming



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Konverma

German based attachment specialist Konverma unveiled a new generation of heavy duty multiprocessors at bauma. The HCM series fits 8t to 50t excavators, with the multiprocessors being available in three variants depending on the jaw type. These consist of the HCM-M multi-function jaw, HCM-C combi jaw and HCM-S scrap metal jaw, with a quick mounting system allowing the changing of the jaws within just 1h. All HCM models feature hydraulic rotation, Gerotor hydraulic motors and robust four point ball bearings. All machine parts that come in contact with the material being processed are made of Hardox 400-450 and 500 steel, with the oversized joints being well greased to ensure the long service life of all pins and bushings.

Lissmac

Lissmac released a hybrid joint cutter (floorsaw) at Bauma. There are a number of advantages with a hybrid joint cutter. The efficiency of a diesel electric joint cutter is much higher than a diesel hydraulic variant. Thus, a diesel drive engine with a power level lower can be used to achieve the same output power on the cutting shaft (75kW compared to 55kW). By using a 55 kW engine, a complex exhaust after treatment with 'Add Blue' can be dispensed with. Reducing diesel engine power further reduces fuel consumption and other associated costs. The environment benefits thanks to the motor generator principle which enables the joint cutter to generate electricity. The response times of electrical components when compared to hydraulic components are significantly shorter, allow a better control mode, and make the application easier and more comfortable for the user.

The hybrid technology has been successfully used

previously in shipbuilding for many years, but has been adapted by Lissmac and modified accordingly. The hydraulics have been replaced by an electrical system with components that are more efficient, with an additional liquid cooling system enabling efficient and long lifetime. The hybrid replaces an equivalent 75kW hydraulic joint cutter with its 55kW solution, delivering improved cutting performance and cost efficiency. It is also able to tackle more applications, and can be used as

a pure electric joint cutter in indoor areas. The generator function also allows the operation of other construction equipment, such as drills, electric joint cutters, wall saws and wire saws, etc., with a connected load of 43.5kW or a maximum current consumption of 6A.

The last two years has seen Lissmac develop its diesel electric joint cutter, with many components having been electrified: hence the electric cutting head is easier to control and also has a particularly high load rigidity. In addition, the electric drive reacts even faster to load changes during cutting, such as when cutting reinforcement in concrete. The use of an electric drive enables the drive wheels to be independently powered and controlled, whereby the speed of each wheel is adjustable. When driving curves, the speed of the outer wheels increases automatically in relation to the inner wheels, which reduces the speed to protect drive, tyres as well as the ground, e.g. when cutting fresh concrete.





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MB Crusher

“With this new machine, we pushed our boundaries: it is packed with innovative features and technology. After years of testing, we are thrilled to launch it onto the market, so that it can benefit the professionals and companies for whom it has been created.” Said Diego Azzolin, production director of MB Crusher, announcing the new generation of shaft screeners. “The new MB-HDS series is radically different from all the other systems available on the market. It has been designed to be a real wild card: it can adapt to a range of different working environments and can select different types of materials with unprecedented simplicity and speed, without the need for a specialist or special training.

“Since 2001, when we patented our first crusher bucket, MB Crusher has evolved while remaining true to its purpose which is to facilitate the work on site and to make it competitive, self-contained and profitable. What professionals, companies and users want is to be able to work continuously, without interruptions for maintenance and to facilitate the processing of materials, which can be very expensive. Over the years we have fulfilled these fundamental requirements, with innovative machines which turn waste materials into opportunities, a key element for many companies nowadays. Today we take a further step forward with the MB-HDS shaft screener line.”

This is the latest development from the Italian company, with the MB-HDS shaft screener having the ability to adapt to different types of work and different materials. It's the ideal solution for those who have to

process different kind of waste rubble, which can quickly be turned into re-usable and profitable material. The innovative MB-HDS screening bucket is available in four models with shafts suitable for different material selection requirements. As with all MB Crusher machines, they can be easily installed on excavators, diggers, mini diggers and loaders (from 5t to 35t) in order to easily access and move around work sites, construction sites, areas containing large pipelines, towns or remote agricultural areas.

Changing of the rotary shafts can be carried out anywhere, having a centralised greasing system with all maintenance tools being located inside a compartment of the shaft screener. However, these are not the only innovations, as the new generation MB-HDS also takes care of the machine on which it is installed. An engineered automated shock absorbing hydraulic system reduces the discharge so that the engine, transmission components and the machine boom do not suffer any damage, thereby preserving machinery life expectancy and reducing maintenance costs.

PistonPower

The innovative PistonPower cartridge amplifier enables OEMs to design hydraulic systems at pressure levels below 200bar, even on very large scale off highway machinery. It is integrated directly into the machine and amplifies the pressure in the cylinder. This means that the diesel engine can always run at an optimum level, therefore helping to lower fuel consumption. All vehicles in the off highway industry can benefit from the integrated PistonPower cartridge amplifier in the cylinder, with the technology enabling vehicles to operate without having a centralized high pressure hydraulic system. PistonPower's bespoke solution is generating particular interest in the demolition sector.

Traditional designs using a centralized hydraulic system distribute high pressure system flow to each function on the machine. Increasingly higher force and power than ever before are required with the central system being normally designed to be able to reach the 'corner point' of performance on any function on the machine. In most working cycles, a hydraulic system reaches this corner point in a single digit percentage of the power cycle, and yet the diesel engine and its complete system must be built and designed for high pump and main system pressure so that it remains capable of reaching the corner point at any time. This increases energy consumption and cost because of the need for high pressure system components that require more maintenance.

The PistonPower cartridge amplifier is integrated in the cylinder without the need for external connector hoses. It allows pressure and force to be increased while

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reducing the size and weight of the machine, which can therefore be leaner and more agile. Using pistons with different surface areas is a basic and a well-known way of improving pressure amplification. What makes the cartridge Amplifier unique is that it has the amplification pistons, the necessary activation valving, as well as a unique bypass flow and over centre valve, all installed in a small compact unit. This unit contains the complete system, ready to install in a hydraulic cylinder with the PistonPower high pressure cartridge amplifier being the only solution on the market available as a single unit cartridge.

SBM

The brand new Remax 200 from SBM, showed at Bauma, successfully uses superior impact crusher technology and an electric/diesel-electric drive system in the 20t class. Based on existing SBM technology, the

combination of innovative design and the use of high quality components has seen the Remax range develop an excellent reputation in the market. Now SBM has used the same know how to produce a powerful compact class crusher for quarries and construction material recycling featuring some of SBM's latest developments.

Even the compact class of tracked mobile processing has shown the need for the use of electric drive systems. With 50 years of experience, SBM has been a pioneer in the development of diesel electric or fully electric options on its equipment. The Austrian company has now developed its existing technology with a 'future oriented' drive option as a feature in its 22t compact class crushers.

Based on its drive concept, SBM now offers clear practical advantages regarding the operational control of the plant. As with the 'big' impact crushers of the Remax series, the rotor is turned without a clutch by an

electric motor. The resulting constantly fully electronic control of the crusher chamber ensures high production capacity due to the continuously load dependent control of material flow and feed material quantity. The discharge chute is another unique characteristic of the compact 200 series (within its class), as in contrast to a discharge conveyor, this chute is an essential feature ensuring trouble free processing, especially beneficial with challenging recycling tasks.

In addition to technical developments, ease of use is now an essential customer requirement. SBM now offers one of the industry's latest developments for its new Remax 200. The compact impact crusher is said by SBM to be the first mobile plant in its class supported by an 'app' for iOS and Android. This facilitates the effective evaluation of production data including error analysis and tracking, as well as service planning and spare part

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orders. Additionally, there is the new smartphone based intuitive operating concept called 'SBM Crush Control' with fully integrated telemetry.

Simex

Simex displayed, among others, their range of wheel saws at Bauma. The range presently covers requirements for trenching widths from 30mm to 250mm and depths down to 800mm. Thanks to the patented solutions and power of the wheel saws, they cut a clean and precise trench that won't damage the adjacent pavement, so avoid degrading the excavated material and consequently the mechanical characteristics of the backfill. The RWS 400 was designed to meet the need for making cuts with a minimum curve radius of 5m, and thanks to a steering system controlled by the operator, the RWS 400 can perform a precise 'cut and do it' in less time. This wheel saw does not have to be repetitively taken out of the trench and repositioned to make the trench in segments so that it follows the curved shape of the road, and can create the trench according to the specific requirements of the project.

With the introduction of the new RWS 400, the RW range now comprises three different models (RW 500, RWA 500, RWS 400) that cover a broad spectrum of applications. Designed for cutting and set section trenching of various types, these wheel saws are especially valuable when creating trenches and mini trenches for the installation of fibre optic networks. The three models have common characteristics that make them very productive, reliable and capable of achieving high productivity and flexibility when excavating asphalt and concrete surfaces, as well as rocky surfaces.

Promove

Promove chose one of the most prestigious events in the

construction world to celebrate its 30th anniversary – bauma 2019 – enjoying a hugely successful show.

Great interest was shown by operators in Promove's offering at the Munich exhibition, especially its new products, in particular the multi kit FMK 2000, which is equipped with an innovative system for changing jaws, which can now be replaced directly on the job site in few minutes. Proving to be no less of interest was the new CF130, a 1,300kg fix pulveriser, with a mobile jaw made of three rows of two teeth. The central jaw is staggered and lowered for the other, thus allowing more power and more crushing capacity. Its compact design, with a total length of only 1.7m, allows easy manoeuvrability, making it highly suited for different demolition operations. A single compact block without any welding between body and fixed jaw, entirely made of Hardox 400, gives greater robustness to the pulveriser.

Bauma proved to be a great opportunity for the Promove Team to establish relationships with new and existing customers, as well as enter new markets. The participation and the engagement with visitors at its stand saw the largest ever numbers come to see Promove's solutions based on reliability and innovation.



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SIMEX exhibits its developments at bauma

At its 350m² stand, Simex highlighted its technological and industrial development.

Simex offer a range of equipment for applications ranging from road maintenance to utilities installation, recycling, demolition right through to quarrying, mining and tunnelling. This offering, organised into 25 product ranges comprising of around 80 models, is the result of sustained efforts in R&D, optimisation of industrial processes as well as continued investment. Simex has also started construction of a new plant that will allow the company to step up production and expand its sales network in North America, India and Africa.

The Simex stand at bauma showcased new models including the updated RW 500 wheel saw and the RS 16, an attachment designed for creating rumble strips, with the adaptability to perform two additional functions, making it a fully-fledged 3 in 1 attachment. Representing the family of TF cutter heads were the small but powerful TFC 100 and TFC 50 models. The TFC 100 can be mounted on 2.5t to 4t mini excavators, whereas the TFC 50 is designed to be coupled to mini excavators weighing 1.2t to 4t. Both the models can excavate their entire width thanks to a system with central chain that leaves no areas unmilled, enabling the attachment's working capacity to be exploited to the maximum.

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

During bauma itself Simex also launched the new company slogan, 'Heavy made easy', a concept that sums up the ability of Simex products to make an easier job of what is usually a challenging and complex task. The new slogan is matched with an updated coordinated image, which saw the presentation of new promotional material and merchandising during the Munich show. bauma also saw a completely renovated stand and launch of the new web platform, with the website offering improved browsing with special focus on content and the facility to make direct contact with the company. Simex also hosted an evening gala event at the show which was attended by customers, friends and representatives of media.



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OilQuick unveils product innovations

OilQuick quick couplers enable quick and safe switching of hydraulic attachments directly from the cab. The company has been operating for more than 25 years and sold more than 26,000 systems worldwide. It recently used the bauma show to present its latest developments.

One of the new products is OilQuick's 'Front Pin Guide' (FPG), a control system for safe attachment connection (patent pending). It enables centred and safe guiding of the coupler in the attachment frame, thus ensuring stress free connection of the electrical and oil connections. OilQuick expects the new patented product improvements to achieve increased operational reliability and lower maintenance costs. The introduction of FPG began in German speaking countries with its launch at bauma.

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

A new 'fall' protection system has been launched, being the OQSH and a mechanical lock indicator, MRL. OQSH lessens the hazard of attachments dropping around the machine, whilst in the event of careless or incorrect coupling by the operator, OQSH's safety hooks catch the attachment in all positions. OQSH can be compared to a safety belt in a car, which automatically deploys in the event of an incident or risk of personal injury. MRL is a mechanical lock indicator that clearly informs the operator whether the coupler's locking plungers are in the locked or unlocked position. MRL indicates that the attachment is correctly connected and locked only when the locking plungers are in the correct position under the frame pin. OQLS, OQSH and MRL are independent safety solutions that can be used independently or in different combinations with each other.

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



Kemroc at bauma 2019

The German manufacturer Kemroc presented its specialist attachments for use on carrier vehicles, such as excavators at bauma.

Kemroc, the attachment manufacturer from Hämloch in Germany, has for the last 15 years designed and produced special tools for use on various forms of carrier vehicles such as excavators, backhoes and skid steer loaders. With these specialist attachments controlled from joysticks in the cabin, it is literally in the hands of excavator operators to carry out very complex tasks under conditions that can be difficult and tight for space.

At bauma 2019, on display there were several attachments for several different applications on the Kemroc stand. Developed in cooperation with the specialist foundation engineering company Schönberger Bau GmbH, was Kemroc's contribution to the Schöckem process for the in situ creation of soil / cement structures. A milling attachment fitted with a mixer chain (the KSI soil stabilisation attachment, which was also developed with Schönberger Bau GmbH) works its way into the ground while mixing a cement suspension. In this way, without a need to transport huge volumes of material or exchange the soil, solid load bearing soil / cement structures are created in the ground.

Kemroc has also expanded its existing product range and added completely new attachments for milling and cutting. This includes, amongst others, the expansion of the range of patented chain cutters which are used for excavating deep excavations and trenches. The range of multi-purpose attachments with exchangeable cutter drums and wheels of various designs has also been extended. A completely new product on display was the diamond cutter wheel attachment that enables mid-sized excavators to work in a completely new range of applications. A major benefit of this development is the ability to work in tight spaces in demolition and renovation projects. For contractors working in landscaping and agriculture, a completely new range of compact stump grinding attachments will be of interest.

New Dynaset 'App' for mobile devices launched



Dynaset has launched a new 'App' for browsing products, and locating Dynaset dealers and service providers. Through the App, users can easily receive up to date information on all Dynaset products across applications categories comprising of: electricity, high pressure water, compressed air, magnet power, vibration, power boosting, and know-how. In the App the categories, product pages provide general information and pictures of the products in use, as well as installations and machinery for which they are best suited. Technical information is found in data tables and technical data sheets are also available to be downloaded.

With the App's new locator, the user can also find the closest dealers and Dynaset service providers. The locator uses mobile devices location data and sorts the

closest dealers into a list enabling browsing and selection of dealers. A map also enables searching and locating dealers even from another side of the world. A search bar can be used to find the dealers in different locations, and through clicking a navigation button on the right side of the screen, a route to the dealer's destination is brought up.

The App comes in seven languages: English, French, Spanish, German, Finnish, Russian, and Chinese, with the user able to change the language anytime from the menu on the taskbar. In the near future, an offline update will allow users to access the App anywhere in the world, even without an internet connection. The Dynaset App is now available at the Google Play and the Apple stores.



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New generation of shaft screeners

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

Diego Azzolin, production director of MB Crusher, announced the new generation of shafts screeners during bauma 2019 in Germany. "The new MB-HDS series has been designed to be a real wild card: it can adapt to a range of different working environments and can select different types of materials with unprecedented simplicity and speed, without the need for a specialist or special training."

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

The changing of the rotary shafts can be carried out anywhere, with the new development having a centralised greasing system with all maintenance tools being located inside a compartment of the shaft screener. An engineered automated shock absorbing hydraulic system reduces the discharge so that the engine, transmission components and the machine boom do not suffer damage. "I would like to end by saying that the new generation of MB-HDS shafts screeners fully meets our intention," said Diego Azzolin. "We wish to all of MB Crushers' customers for 2020 and beyond to remove all obstacles and to convert them into a competitive advantage."



TYROLIT PRESENTS INNOVATIVE DEVELOPMENTS AT BAUMA

System solutions provider Tyrolit presented numerous innovations for concrete cutting and drilling at bauma 2019. The company also displayed a selection of special project products for the first time, with the outdoor area of the Austrian manufacturer's booth being the perfect location for demonstrating its offering.

As well as the WSE811-MKII wall saw, an upgrade of the world's lightest compact wall saw, and an extended assortment of wall saw blades with TGD technology, Tyrolit presented the WSE1621. With light weight components, communication interfaces and cutting depths of up to 705mm, the WSE1621 is a wall saw for everyday use on the construction site. Moreover, the wall saw is the first Tyrolit machine equipped with 'MoveSmart' technology, which is an IoT (internet of things) solution that provides real time user data for the machine. This technology is the basis for optimised planning and cost efficient faster operations for users on the one hand, and for user oriented product development on the other.

At bauma Tyrolit also unveiled the WCU17 wire saw which comes with wire storage of up to 17m. One special feature is the machine's compatibility with the drive units and remote controls of other Tyrolit machines, such as the WSE1217 and WSE1621. Another highlight was the recently CE certified WS30, a HF wire saw from Tyrolit subsidiary, Diamond Products.

Right on time for the 100th anniversary of the company, Tyrolit also presented a completely new and compact dry cutting assortment for the construction trade sector. Within the next two years, the complete assortment will be adapted in line with current market needs as well as with today's powerful machines.

Central to the new range are high product safety, as well as optimised cutting speeds and a maximum tool lifetime. The product innovations comprises of discs with conventional segments as well as segments with TGD Technology. Further highlights for the construction trade sector are new assortment of floor grinders and floor grinding shoes: the new TBE400 table saw and the DRS250 core drilling system.

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

The 'Dolphin' by 1Diamond, an expert in the offshore and subsea business, was also exhibited. Tyrolit and 1Diamond teamed up in 2018 to bring customised project solutions from both companies to a new level. This enabled them to offer various cutting solutions from as deep as 3,000m below sea level right up to the surface.



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Products and virtual reality from Rockster

At the bauma 2019, Rockster not only presented its range of products, but also offered a virtual reality tour of one of its crushers at its stand.

As well as its jaw and impact crushers, the Rockster portfolio now includes scalpers and finishing screens, drum screens, stackers and feeder conveyors, with most machines being available with the latest Stage V engines. In order to show its variety of equipment, the company exhibited the R1100DS impact crusher with a screening system and new air blower, the scalping screen RSS410 and the stacker RST23 at bauma.

Rockster's new 'Machine Monitoring System' (MMS), was also launched at bauma, with Rockster sales manager, Norbert Feichtinger, seeing benefits in not only providing a simpler overview of the machinery but also in the improved control of machine utilisation, and in monitoring the handling of the machine. "Due to the possibility of the MMS to check the crusher speed, crusher load, gap setting and vibrating speed even in real time, you can quickly see if there is any need for optimisation in machine handling. Both parties, the owner of the machine as well as the manufacturer, can

react immediately and therefor reduce wear, increase throughput and optimise the crushing result. Quick access to location data, operating hours or fuel consumption provides valuable services especially in the rental business."

Rockster also offered a virtual reality experience at the show, enabling visitor to 'enter a crusher', in this

case, its latest impact crusher, the R1000S. Equipped with VR glasses and a controller, interested visitors were allowed to 'beam in' front, behind, on or even into the crusher, raise and lower the magnetic separator or screen box, open the crusher chamber, change blow bars and much more. This provided a unique perspective both from outside and inside the crusher.



CONJET PRESENTS NEW PRODUCTS AT BAUMA



Conjet, the Swedish manufacturer of hydro demolition equipment, released several new products at this year's bauma.

Firstly, Conjet AB released a high pressure lance rated up to 3,000bar and wear resistant nozzle nut. The lance can be used in single pump mode or tandem mode connecting two pumps directly to the lance. It suits all robots in the 7-series as well as all earlier robots. The 3,000 bar lance handles up to 140l/min and can be fitted with ceramic nozzles and can also be extended to suit different applications.

A CWS620 water separator has also been released, which deals with waste water from hydro demolition operations. In many areas of the world waste water from hydro demolition cannot be recycled into the sewage systems due to high content of solid particles as well as a high pH value. The CWS620 takes care of this problem, using two cyclones and injecting CO₂ gas, with the water being relieved of 97% of solid particles while the pH-value is reduced from 12-13 to a set value of 7-10 (depending on local regulations and requirements). It is

equipped with a monitoring and control system that logs the pH value over time and regulates the supply of CO₂ gas. It also shuts off the sludge pump when the water level is below a minimum set point. The monitoring



system logs data which can be exported onto a USB for later analysis. The treated water can be used to flush the demolished surface or recycled into the sewage system.

A web portal communication solution, CWP, has been released, which allows management and logistics to access operational data in real time. The CWP can be used as a diagnostic tool as well as a location tool for the unit. It also gives the owner an overview of all machines and their current location, with the CWP system sending email/SMS in the event of an error. It is also a possible to update the software from a remote location thereby minimising downtime.

The final Conjet release is the PTS cutting head, which contains a variety of innovations to improve reliability and hydro demolition process results. The PTS cutting head has been developed to house several improvements for the movement and control of the water jet, as with PTS, the nozzle is moved parallel to the surface when changing work direction. A rugged mechanical design ensures smooth movement of the lance while maintaining total control, with an angle of 45° in both directions (left and right) cleaning behind rebar is easily accomplished.

In the past, changing the oscillation width has been a time consuming task, but with the 'VOS' (variable oscillation system), the oscillation width is changed from the operator's control panel, or set as a parameter for the cut. This enables the robot to expose rebar and cut much more accurately within a set parameter range. The PTS cutting head is equipped with quick couplings for hydraulic lines as well as a heavy duty connector for electric signals, with the solution making it easy to extend or replace the hose package if needed.



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***Diaquip** new London depot*

After 20 years of leading in Diamond Tool and equipment supplies in the North, Diaquip announce the opening of their new London Depot. This is a fully manned unit offering the full range of Diaquip products off the shelf but will also allow the company to offer manufacturing services on core drills from 10mm right up to 1200mmØ, as well as floor/wallsaw blades up to 2200mmØ. Diaquip will be ready to service and support their clients every need including all last-minute orders, including a service counter for all pick-up/drop off services.

At the London Depot Diaquip also hold stock of all Hycon products, as Diaquip are now the official national agent.

Diaquip welcomes their clients to come and visit them and find out how much time they can save by seeing how accessible the Diaquip London Depot is. Furthermore clients can also have a look around inside the premises and see the wide range of stock and the facilities.

The London Depot is proving very popular, with Diaquip's same day delivery system serving very happy customers. Diaquip have successfully turned around large re-tips on blades up to 2200mm and delivered same day back to customer ready for the job, along with very large diameter coredrills. With being only 20



miles from the centre of London, according to Diaquip, the company have by far the largest stocks of diamond consumables in the UK.

Diaquip London is on the contractors doorstep and is there to provide the end-users with the service and products needed, anywhere at any time.

As well as the exciting launch of the new London Depot, Diaquip are the first and only company in the UK to have invested in a fully automated, 3 axis CNC controlled laser welding machine. After realising that their customers always require the highest quality product, at the fastest service, the laser weld machine does just that; by giving their valued customers RAW-

CORES; everything they need from a core drill and nothing they don't.

Finally, after 20 years in the making, Diaquip launched the DQ segment. Due to being manufactured using Diaquip's renowned FusionTech Technology, the DQ segment makes more holes, quicker, than any other segment, according to Diaquip. Further according to Diaquip, the DQ is abnormally yet undeniably fast, producing devastating production. This has been tried, tested, and now dominates in London flint. "Now we're going to let the DQ do the talking", says a Diaquip spokesman.

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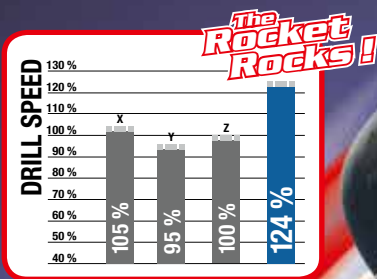


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Taylor & Braithwaite sell the first Hyundai HX900 L in Europe to Able UK

HCEE (Hyundai Construction Equipment Europe) distributor, Taylor & Braithwaite, located in Cumbria UK, has sold the very first HX900 L crawler excavator in Europe to Able UK. The company, headquartered in Middlesbrough, operates across a number of challenging industrial and business sectors, and is a specialist in complex demolition and decommissioning processes.

The new 90t HX900 L is working at Able Seaton Port (ASP), located on the north east coast where the machine is shearing metal to size, which will then become suitable for recycling. The HX900 L is equipped with a 10t Fortress Shear to tackle tough demolition tasks, and was also supplied with a 4.85 m³ bucket for excavation use. Taylor & Braithwaite sales manager, Chris Jordan, said, "The company were looking for a machine to speed up the process of metal recycling as their workload had significantly increased. They needed an excavator which was capable of working in tough environments and could cope with heavy duty tasks."

The discussions began with Chris talking with Able's plant manager, Philip Mangan, regarding the company's requirements, and explaining which models Hyundai could offer which would be suitable.

Able UK were already familiar with the Hyundai brand as in 2016 the company purchased a 43t R430LC-9A model. Philip Mangan, commented, "We are more than satisfied with our 90t machine and we definitely look forward to continue the collaboration. The HX900L is performing well – we could not ask for more."



2019 sees many new products from Atlas Copco

Atlas Copco presented several products at this year's bauma and introduced Stage V compliant diesel engines to its 'DrillAir' range of high pressure portable compressors. Mainly used for ground engineering, pipeline services, water well and geothermal drilling, the DrillAir range encompasses several large compressor models with operating pressures between 20-35bar and flows from 20.6-42 m³/min. Additionally, Atlas Copco has applied the new Xc4004 'Smart Air' controller to this compressor range. These developments, in combination with the 'AirXpert 2.0' performance management system, mean that drilling companies can both reduce engine emission levels and improve their operating performance.

Throughout 2019, Atlas Copco will also introduce several mobile electric variable speed drive (VSD) air compressors to its 'E-Air' range. The absence of diesel emissions, combined with the low noise levels, make the E-Air range a good match for underground applications like mining or tunnelling, as air ventilation is a part of the running costs. A new addition to the QAC range of containerised generators, the QAC 1450 'TwinPower', has been introduced, the QAC 1450 TwinPower.

Atlas Copco has introduced its first ever battery powered LED light tower. Offering run times of up to 32h, an extended lifespan, minimal maintenance and low operational costs, the compact 'HiLight Z3+' is powered by lithium ion batteries and provides enhanced illumination for metropolitan construction sites, outdoor events and industrial areas. Zero noise during operation and the absence of engine emissions ensure full environmental compliance in urban locations.

TYROLIT COOPERATES WITH THE VIENNESE START-UP TOOLSENSE

Tyrolit has announced that it is working closely with Viennese start-up company, ToolSense GmbH, and Deutsche Telekom to connect construction machines.

The 'Internet of Things' (IoT), enables intelligent communication between machines. This development has seen a new manufacturer-independent language for construction machines in concrete drilling and cutting technology being developed. Tyrolit is now implementing this innovation with the so named 'MoveSmart' technology. "Networked machines and digital solutions are becoming more and more important in our sector. We see that our customers need a universal, cross vendor solution. For that, the industry standard with ToolSense and DeutscheTelekom is ideally suited," says Wolfgang Wiefeler, managing director, Tyrolit Construction Products.

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

The compact Tyrolit WSE1621 is a reliable and powerful wall saw system and the first in the world that features the MoveSmart technology. The all-rounder has particularly lightweight system components, as well as numerous digital equipment attributes which collect important data for optimal and smooth operation. Via its intelligent communication interface, the data is available anytime, whether in the office or on mobile devices, simplifying work for the user.

ToolSense develops solutions to enable contractors to react flexibly and quickly as they will know where their machinery (equipped with Tyrolit's MoveSmart) is located, which machine was in use and for how long, whether there was unplanned downtime or whether a service is pending. The digital standard for 'IoT' is already being implemented in the production of many new construction machines, but contractors can also look forward to the possibility of upgrading older models with the new technology.





DEM TECH INDIA 2019



13 NOVEMBER, 2019 • Mumbai

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INDIA'S CONSTRUCTION INDUSTRY IS BOOMING. ARE YOU GAME FOR IT?

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200 large and 120,000 small and medium size firms.

India's economy is growing at record pace with the construction industry booming. This has prompted a number of key industry stakeholders in India to respond, establishing a collaborative body for the demolition, recycling and remediation industries. It is this collaboration which has led to the founding of India's first Demolition Association. At the same time, India's first dedicated Annual Conference for the demolition industry will be held, serving different service sectors, with this annual conference being instituted under the banner of the Indian Demolition Association. The name of the conference will be DEMTECH, which will take place on 13 November at the Hotel Sahara Star in Mumbai this year.

India is the world's fastest growing economy, growing more rapidly than even China. In 2018, GDP rose by an average of 7%. The country's infrastructure is undergoing extensive renovation and expansion, and since 2018 the country has implemented a plan to invest more than US \$98 billion in new infrastructure projects. The construction industry in general has experienced circumstances on a par with China's, with new cities and residential areas growing like 'fungi' out of the ground. It is estimated that by around 2022 the construction industry will be the largest user of labour in India, employing more than 75 million people. It is also estimated that by 2030 the investment level for construction projects in India will reach US \$7.5 trillion. In India, there are currently over 200 large construction and civil engineering companies that work throughout the country. To this should be added to around 120,000 small and medium sized construction companies.



Great need for demolition, recycling and remediation

Where construction is being undertaken, professional services are also needed in the field of demolition, recycling of building residues, remediation, concrete cutting and various dismantling methods of structures, etc. In order to catch up on the events that are happening in India right now, some key companies in the demolition industry in India have joined forces to organize India's first conference on demolition, remediation and recycling. The term 'demolition' in this case also includes methods associated with diamond tools such as concrete drilling, floor sawing and demolition using wall and wire saws. The parties organising this conference now invite not only local players to the new conference, but also invite international companies to participate.

The conference is called DEMTECH, and is a one day event to be held on 13 November 2019. The location of the conference is Hotel Sahara Star, Mumbai. The hotel is directly adjacent to Chhatrapati Shivaji International Air-



port Mumbai, Terminal 1, also known as the Domestic Terminal. The conference will run from 09.00hrs to 17.00hrs, and will include a packed lecture schedule with a variety of topics including:

- Demolition business opportunities in India
- Future of recycling and remediation
- Infrastructure investments
- Construction industry development from today to 2025
- Presentations of major projects in India
- Product presentations by sponsors
- 'Need' of the hour

A project group for DEMTECH 2019 is working on establishing the final programme for the conference day which will shortly be available on the website: www.demtech.in.

In addition to the conference itself, a smaller area has been reserved for table top booths with space for about 20 booths directly adjacent to the conference room. There is also a separate sponsorship programme for the suppliers who wish to sponsor the event. More information and booking details can be found on the DEMTECH website. At the end of the conference day, a gala dinner will be held at the Hotel Sahara Star for the delegates.

Founding of the Indian Demolition Association (IDA)

During the day of the 13 November, India will also officially establish its first exclusive industry association for professional contractors involved in demolition, remediation and recycling. One of the driving forces behind the conference, and also the founding member of the industry association, is Mr. Mohan Ramanathan, who has worked in the Indian demolition industry for many years, being well known to the industry and its suppliers. "India is currently in a delicate position in its development where increased co-operation between contractors and suppliers is of the highest importance. DEMTECH will be a perfect starting point for all the professional players who wish to contribute and take care of the opportunities that the country's strong development within the construction industry offers," says Mohan Ramanathan. The international journal, PDi Magazine will serve as media partner for DEMTECH 2019.

Indian BMP has risen by an average of 7%.



Sponsorship Opportunities

Headline Sponsor INR Rs 1,180,000*
(Only available to 1 sponsor)

Pre-event publicity:

- Large sponsor banner on all newsletters concerning the conference.
- Headline banner and separate company logo on DEMTECH website.
- Logo included on all pre-conference material such as presentation folders and printed advertisements, mailings, etc.

During conference publicity:

- Space for 4 rollup banners in a prime location in the conference area.
- Full page advertisement in the conference programme.
- 5 free delegate passes.
- Prime position (bare space) in stall exposition area (6m x 3m) – sponsor can then construct its own stall space (set up time available: 6hrs).
- Promotional items in delegate bags (sponsor to provide).
- Premium stage branding on large LED screens during conference.
- One free annual membership of IDA.

* Rate includes 18% GST.

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Pre-event publicity:

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- Promotional items in delegate bags (sponsor to provide).
- Premium stage branding on large LED screens during conference.
- One free annual membership of IDA.

Affiliate Sponsor INR Rs 413,000*
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Pre-event publicity:

- Company logo on all conference newsletters
- Company logo on DEMTECH website.
- Company logo featured on all pre-conference material.

During conference publicity:

- Space for 2 rollup banners in the conference area, shared with other affiliate sponsors.
- Company logo featured in the conference programme.
- 2 free delegate passes.
- Fixed shell space in stall exposition area, (2m x 2m). Sponsor can brand the shell space with its own flex banners (set up time available: 3hrs).
- Premium stage branding on large LED screens during conference.
- One free annual membership of IDA.

Booth

Table Top Booth INR Rs 125,000*

Booth includes 1 Table, 2 chairs and 1 electric socket. Booth area allocation is at the organizer's discretion. 1 person (stall representative) allowed to man the stall area.

Attendee Registration

DEMTECH India 2019 Conference fee: INR Rs 6,250*

Conference fee includes

- Access to full day conference sessions
- Tea/coffee and lunch
- Cocktail & networking
- Gala Dinner with entertainment
- Inauguration ceremony of the Indian Demolition Association
- Delegate kit

Attendee registration for DEMTECH 2019

conference should be made online at www.demtech.in. Registration is only valid if it is completed with an online payment of INR RS. 6,250*

Venue

The DEMTECH India 2019 Conference, 13 November, is the first nationwide conference for the demolition, remediation and recycling industries in India.

The conference will take place at:

**Hotel Sahara Star
(Jade banquet hall)
Sahara Hospitality Ltd.,
Opposite Domestic Airport,
Vile Parle-East, Mumbai-400099, India**

For more information e-mail: info@demtech.in or info@pdworld.com

* Rate includes 18% GST.

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ELECTRIC AVENUES

Electric powered equipment was the talk of bauma, at least in the realm of smaller machines. Though diesel isn't dead yet, manufacturers are gearing up for a world where fossil fuels need not be the usual option.



PDi takes a look at some recent additions to the mini and compact excavator market that are designed to enhance productivity, regardless of power source.

ECR25 excavator leads Volvo's new range of electric compact machines.

Volvo Construction Equipment unveiled its first commercial zero emissions electric compact excavator at bauma in Munich. The ECR25 is the first to be shown from a new electric range of Volvo branded compact equipment delivering zero exhaust emissions, significantly lower noise levels, reduced energy costs, improved efficiency, and less maintenance requirements when compared to their conventional counterparts. The ECR25 is fitted with lithium ion batteries and one electric motor which power the hydraulics in order to move the machine and the attachment. The machine's batteries store enough electric energy to power the ECR25 for 8h in its most common applications, such as utility work. An onboard charger enables overnight charging via a regular household plug socket. A fast charging option, requiring more powerful grid access, will also be available.

Beginning in mid-2020, Volvo CE will launch a range of electric compact excavators (EC15 to EC27) as well as a series of electric wheel loaders (L20 to L28), ending new diesel engine based development of these models.

www.volvoce.com

Kubota KX033-4 with extendable dipper arm

The KX033-4 is part of Kubota's popular KX Series and sits in the 3t class yet boasts the lifting capacity of a larger machine. Ideal for those hard to reach areas, the KX033-4's optional extendable dipper arm can be quickly and easily extended up to 787mm, boosting

productivity as well as efficiency. Its impressive capabilities include a digging depth of 3.7m and a digging reach of 5.5m. The KX033-4 is powered by Kubota's direct injection diesel engine with auto shift and idle features. Operators focused features include 'easy-open' front glass windows, deluxe suspension seat, cup holder, wrist rest and air conditioning. A large, easy to read digital panel is user friendly with simple settings and push button operations.



Also from Kubota, U27-4 tight tail swing excavator

Kubota's U27-4 features adjustable auxiliary flow hydraulics, an auxiliary diverter valve, two speed automatic downshift travel, as well as what is claimed to be best in class reach and dig depth. A powerful and well balanced arm and bucket design allows the operator to dig faster, deeper, and more efficiently even in the toughest conditions. Engineered to prioritize productivity, the U27-4 boasts a bucket digging force of 3,181.5kg. Operators will benefit from a large, spacious cab with wider entrance, greater leg room, more flow space and a luxurious interior as well as a new user friendly front meter panel. An enclosed heated cab option also available.

'Next Generation' 1t-2t CAT mini excavators designed for optimum customer value

Four new models in the Cat mini hydraulic excavator line up, engineered and manufactured by Caterpillar,



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New PC30/35/45/55MR-5: Powerful, great in tight spaces and easy to maintain

This new generation harnesses Komatsu's unrivalled technological knowhow and worldwide resources to bring industry leading customer values to the mini excavator sector. The MR-5 range boasts many industry firsts and is packed with outstanding new and improved features: low fuel consumption, operator comfort, safety initiatives, ergonomic design, advances in controllability and the highest levels of standard specifications ever seen in the industry.

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WWW.KOMATSU.EU



have been introduced to provide users with the best performance, versatility, safety, operator convenience and affordability in the smallest possible packages for 1t to 2t class machines. This customer focused approach to engineering has resulted in the new models incorporating what is said to be industry first standard features, such as joystick steering ('Stick Steer') a tilt up canopy or cab, as well as new options, including air conditioning and expandable undercarriages across the range.

Minimum operating weights (approximate) for the new models range from 1,575kg to 2,045kg, with weights increasing to as much as 2,200 kg, depending on specific machine configuration. Dig depths are 2.34m or 2.37m, depending on the model. An available long stick increases depth by 203mm, rubber track undercarriages come as standard, with steel tracks available for all models. All the new models use the Cat C1.1 engine, a three cylinder diesel rated at 14.3kW which meets Stage V emissions regulations. The C1.1 features a power dense design and delivers consistent performance through a wide speed range.

Fuel efficiency is enhanced with engine idle control and automatic shutdown systems, with the new 'Next Generation' mini excavators using an efficient, fuel saving, load sensing hydraulic system with an electronically controlled variable displacement piston pump capable of oil flows to 66 l/min. Flow rates, coupled with high main relief pressures, provide the new models with the hydraulic capacity to generate high digging and lifting forces, as well as to handle powered attachments.

Mecalac e12:

a 100% electric excavator for urban job sites

The e12 is the electric version of the Mecalac 12MTX. With a structure designed for the city from the outset, and two independently running electric motors (one powering the excavation mechanism and one for movement) the Mecalac e12 is designed to be a fixture of plant fleets for urban environments. Its 100% electric

transmission offers high levels of tractive force as soon as the engine is started with brake energy regeneration. The electric motors' deliver high power density making it possible to keep it extremely compact, whilst requiring almost no maintenance.

The design of the 12 MTX forms the basis of the electric version with the engine housing now incorporating LiFePO4 battery technology. This is based on iron and phosphate for three times as many charge cycles that marry a service life considerably better than classic batteries, with high levels of safety due to no risk of fires or battery fluid leaks. Moreover, the e12 has a charging station that can be used to recharge it on site in 6h to 7h. Without compromising on power, the e12 can work all day without needing to recharge the batteries, with a range of eight hours at the highest power output. All in all the Mecalac e12 aims to deliver less vibration, less noise pollution, less maintenance (no more filters, no more oil, etc.), less risk of on-site accidents, less spent on maintenance, and no CO2 or particulate emissions.

Yanmar's ViO23.6, designed to be small and versatile

Yanmar's new ViO23-6 is a 2.3t mini excavator designed to work in confined spaces. Its rotation radius is just 1.38m, with the machine being zero offset, and counterweights that do not protrude even when the chassis is closed, and front parts of the turrets that do not extend beyond the width of the tracks. The standard ViO23-6 is equipped with a variable track chassis that can extend from 1.38m to 1.55m to provide good stability and lifting capacity. An additional counterweight allows it to operate with heavier attachments. This compactness of the lower chassis and its transport weight of 2,365kg, including cabin, standard counterweights, and standard arm, mean that the ViO23-6 can be transported with its accessories on a trailer.

The ViO23-6 is powered by a Yanmar 3TNV76-PBV1 engine which comes with an auto deceleration system and eco mode as standard. It also has a ViPPS (ViO Progressive three pump system) hydraulic system complimented by a distributor to optimise the per-





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formance of all hydraulic operations simultaneously. It has a digging depth of 2.45m, with a standard arm, an excavation force of 17.5kN with a bucket, and 13.1kN with a standard arm.

Komatsu develops electric mini excavator

Komatsu has developed an electric mini excavator equipped with an in house developed new charger, high voltage converter, and other devices. This has resulted in the 4,730kg machine delivering excavation performance on a par with the internal combustion model of the same power output, while achieving zero exhaust gas emissions and a dynamic reduction in noise levels.

The new electric mini excavator uses the easy maintenance battery which powers the popular Komatsu FE-series electric forklift trucks. When fully charged, this battery enables up to 6h of operation, depending on jobsite and operational conditions. It also allows for quick charging, for example, during a lunch break, extending the available working hours. The machine allows for real time monitoring of power consumption and charging conditions on the built in monitor panel. It also allows for the remote monitoring of that information together with the machine location and operating conditions.



New Hyundai 1t mini excavator debuts at bauma 2019

Hyundai Construction Equipment Europe has launched its smallest mini excavator HX10A specifically for work in closed spaces or urban areas and completes the HX machine line up which ranges now from 1t to 90t. Its

slim design enables easy transport and excellent access through doorways or operation in space confined areas. The mono boom is mounted on a swing post which allows the HX10A to dig close to a wall or across the entire width of the machine, making it particularly useful on small sites where it may not be easy to reposition the excavator. A low operating weight of just 1,000kg with high levels of lifting and breakout forces make the 1t mini excavator useful for gardening and landscaping, on construction sites in residential areas and for demolition and indoor work.

A two column foldable ROPS bar makes it possible to easily enter buildings via a standard door, whereas a boom cylinder is top mounted to prevent potential damage, whilst servicing is made easier and quicker due to an easily accessed engine. The variable undercarriage increases stability whenever needed, whilst the equally extendable dozer blade allows for grading over the full track width. In addition to the existing Yanmar diesel engine, the compact excavator can as an option be operated electrically and emission free, supplying the same performance characteristics.



Bobcat's new 1t electric mini excavator

Bobcat has also entered the electric equipment market with the E10e battery powered, zero tail swing (ZTS) 1t mini excavator. Combining zero emissions, low noise and a width of just 710mm, the E10e can easily pass through standard doors and in and out of lifts, making it ideal for indoor applications such as demolition and basement construction. Developed at the Bobcat EMEA innovation centre in conjunction with electric vehicle suppliers, the E10e is based on the design of the very successful diesel powered E10 1t mini excavator. (The E10 is now called the E10z to reflect that it is a ZTS mini-excavator). The E10e has the same ZTS profile and identical external dimensions as the standard E10/ E10z machine and offers equal or better performance.

As the new machine is designed to be used in demanding indoor applications such as breaker work in demolition, it is equipped with auxiliary lines and an efficient oil cooler system for continuous hydraulic breaker operation. Cooling system capacity has been increased to meet extended demolition application requirements. The E10e uses a lithium ion maintenance free battery pack with an advanced management system which has been designed to fit within the standard machine envelope to maintain the machine's ZTS profile. Based on customer studies, Bobcat has optimised the battery pack to provide capacity to match typical work patterns. Using external 400V supercharger functionality, the E10e when used with normal work breaks, can operate throughout a full working day and can be recharged to 80% of the capacity in less than 2h. The battery can also be recharged overnight by using the on board charger.

www.bobcat.com



Epiroc introduces bucket screeners at bauma 2019

Epiroc has widened its extensive portfolio of hydraulic attachment tools with a range of bucket screeners.

The new bucket screeners BS 1600 and BS 2200 have service weights of 1,710kg and 2,450kg respectively, and are said to combine the best of modern design and sturdy construction to bring customers in the recycling and rock excavation business a complete solution. Hydraulic power is transmitted to the basket via a timing belt that doesn't require tensioning, with this reliable transmission solution delivering optimum torque and reduces maintenance time. "The large diameter of the main roller bearing enables us to fit a much longer basket, compared to other screeners on the market," says Gordon Hambach, global marketing manager, Epiroc hydraulic attachment tools. "The bigger screening area gives significant increase in performance and ensures high quality output."

The basket features a polygonal design, with 12 sides rather than a smooth rounded surface. This shape enables the material to be shaken in a very effective way to speed up the screening process. The material then passes through hexagonal openings in the mesh enabling high quality aggregates to be produced from rocks, crushed concrete and recycled material straight on the job site. Depending on needs and requirements, customers can choose from baskets with six different mesh size openings: 20-30mm, 40-50mm, 60-70mm and 80mm.

The new Epiroc Bucket Screeners are available in two sizes, for carriers between 18t to 38t, with high resistant steel construction ensuring a long lifetime in harsh working environment. Technical data for BS 1600 is carrier weight class 18t -25t, service weight 1,710kg, loading volume 1.5 m³, oil flow 160-180 l/min and operating pressure 200bar. Technical data for the BS 2200 is carrier weight class 24t -38t, service weight 2,450kg, loading volume 3m³, oil flow 180-200l/min and operating pressure of 250bar.

Doppstadt aims to make landfilling a thing of the past

The demand for raw material is increasing, but resources are finite. One solution to this conflict lies in sustainable processing and recycling, which has seen Doppstadt extending its product range.

In the seventies, waste disposal and management required new solutions with many societies turning away from a 'throwaway' culture. At that time, Doppstadt started developing machinery solutions for the shredding, screening and washing of various materials such as garbage, industrial waste, bio-waste, waste wood and excavated earth. Now societies face a new challenge with the worldwide demand for raw materials increasing, but resources being finite. Doppstadt believes this conflict can be reconciled by the development of sustainable processing and recycling technologies.

For Doppstadt, this has led to the launch of new machinery and technologies for the processing and excavation of mineral mine waste, as these materials require shredding, separating and washing. These developments are combined with Doppstadt developed processes and expertise for the separation of construction materials, and in the economic efficiency of screening in stone quarries.

Methods to separate material mixtures that could not previously be sorted into reusable fractions are of great importance in order to reduce or avoid landfilling, with more than 50% of all German waste coming from demolition and removal. Even in natural stone quarries, solutions can help to extend the lifetime of the quarries as the 'waste' material fraction can be utilised much more efficiently. Doppstadt aims to develop further solutions to problems that cannot be solved so far. Its core competencies, such as the reduction of MSW landfills provide technology and expertise to tackle these problems, with its avowed aim being to make landfilling a thing of the past.



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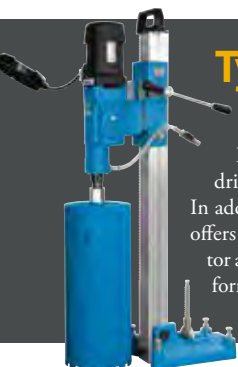
Brokk has introduced the Brokk 70 which follows last year's introduction of four new models and extends the Brokk SmartPower line of machines.

The new Brokk 70 is a solution for bringing safe, mechanized and efficient demolition to confined spaces. Compared to its predecessor, the Brokk 70 packs more than 100% more demolition power, comes with the latest innovative Brokk SmartPower technology, as well as a powerful and fine-tuned hydraulic system.

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

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

The Brokk 70 comes with several brand new attachments, including 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 hot environments. The new Brokk BDC40 drum cutter brings impressive cutting power to the smallest segment of demolition robots for the first time, whilst the new Brokk G32 demolition grapple is developed for more efficient soft demolition. At the same time the Brokk 70 keeps the same extremely compact dimensions as its predecessor. Its power and technology comes in a package that weighs only 560kg, fits through the narrowest doorways, and can be transported in an ordinary passenger elevator.



Tyrolit's new system solution for drilling diameters up to 250mm

Tyrolit has launched the new DRS250 core drilling system for drilling diameters of up to 250mm. In addition to the DRS162, Tyrolit now offers another system where the drill motor and drill rig complement each other forming one unit.

Thanks to its 2.5kW motor,

compact build and low weight, users can benefit from a powerful and user friendly solution, with additionally, the two speed oil bath gearbox of the DRS250 providing for lubrication in all working positions, as well as a balanced torque to speed ratio. By means of a space saving mounting option via a dowel foot, frictionless work is possible in narrow spaces. The mechanical friction clutch and the integrated PRCD

safety switch ensure security. Optionally, Tyrolit offers a vacuum plate that provides a higher flexibility for the system mounting.

The advantages of the solution include a drilling diameter up to Ø 250mm with two speed transmission, a 2.5kW motor, a space saving mounting option via a dowel foot, and optional vacuum plate offering more flexibility for the system mounting.



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Winner and nominees for the IACDS Diamond Job Award 2019.



As is traditional, the IACDS Diamond Awards were presented at the bauma networking event. This year, two awards were presented along with one honorary member award.

The International Association of Concrete Drillers & Sawers (IACDS) held its networking event at bauma as usual. Hosted by Julie White and Michael Findeis, some 110 people, from over 30 different countries attended, comprising of contractors, manufacturers and distributors from the concrete cutting industry. At the networking event (held on Thursday 11 April) the 2019 Diamond Award winners were officially recognised, with this year two awards being presented. One was, as usual, the Job Category Award, for the most spectacular concrete sawing and drilling project, with a new award also being presented this year, the Product Category Award.

The winner of the Job Category Award was Concrete Coring Company from Osaka in Japan, whilst the winner of the Product Category Award was Braun Maschinenfabrik GmbH from Vöcklabruck, Austria. An Honorary Award was presented to Peter White, former president of the IACDS and founder of the UK concrete sawing and drilling company D-Drill.



The IACDS Honorary Award was presented to Peter White (middle) by IACDS vice president Julie White and IACDS president Michael Findeis.

The nominees in the 2019 Job Category Award were:

Concrete Coring Company, Japan - WINNER

Job: Demolition of exiting sidewall at the Osaka metro system
www.coring-osaka.co.jp

Atlantic Concrete Cutting, Inc, USA

Job: Demolition of the former Tappan Zee Bridge
www.atlanticconcretecutting.com

C A Drillers Limited, London, UK

Job: London City Airport
www.cadrillers.com

Cuts Inc, USA

Job: Paving the way for an 'uncrackable concrete' phase 1&2.
www.cutsinc.org

Cutting Edge Service, Inc, USA

Job: Red Rock hydro project
www.cuttingedgeservices.com

Daiichi Cutter Kogyo K.K., Japan

Job: Renovation project for the Ikari Dam by means of lengthy stitch drilling
www.daiichi-cutter.co.jp

Diamantbohr AG, Switzerland

Job: Art at its best – Dreamer 2018 (wire saw work for artist Katja Schenker)
www.diamantbohr.com

Diamond Drilling SRL, Romania

Job: Petrobrazi refinery.
www.diamonddrilling.ro

Nippon Concrete Cutting Co., Ltd., Japan

Job: From concrete to the next stage!
www.concrete-cutting.jp

Perfocort, Morocco

Job: Deconstruction of the former headquarters and realization of an open air parking at the Societe Generale Social Headquarters Casablanca, Morocco
www.perfocort.com

Re-Corta, Demolición Técnica, S.L., Algeria

Job: Cutting a shipwreck with diamond wire saw
www.re-corta.com

Robore Cuts Ltd, UK

Job: Dover Docks – Dunkirk jetty
www.robore.com

Seliger GmbH, Germany

Job: Wire cutting GFRP pipes for the renovation of main sewer in Munich Oberwiesenfeld
www.seligermbh.de

West Coast Cutting & Coring Group LTD, Canada

Job: Ruskin Dam and Powerhouse upgrade project
www.westcoastcutting.ca

The nominees for the 2019 Product Category Award were:

Braun Maschinenfabrik GmbH, Austria - WINNER

Product: Braun bridge wire saw
www.braun.at

Cuts Inc., USA

Product: SS3600HF skid steer sawing attachment
www.skidsteersaw.com

Fachverband Betonbohren und Sägen und VDMA [Verband Deutscher Maschinen- und Anlagenbau], Germany

Product: PQ6 quick coupler for drill bits

Hilti Corporation, Liechtenstein

Product: Hilti DST 20-CA
www.hilti.group

SMK Sprayers, USA

Product: C100WOLXD silica dust-X sprayer
www.smksprayers.com

Thayr Demolición Técnica, SL, Spain

Product: Brett H50BTM
www.thayr.es

Tyrolit Construction Products GmbH

Product: Wall Saw WSE1621
www.tyrolit.com

Vacuworx (Vacuworx Global, LLC)

Product: Vacuworx SL 2 subcompact vacuum lifting system
www.vacuworx.com



The winner and nominees for the IACDS Diamond Product Award 2019.

Florian Plattner, David Plattner (CEO), Erika Angerer (nee Plattner) and Felix Plattner at the company's headquarters in Schwaz, Austria against the gorgeous backdrop of Tyrolean Alps.



HERE, THE SAW IS THE LAW!

As the most technology intensive kind of concrete cutting machinery, wall and wire sawing systems set out the path for the entire industry to follow. This year bauma, the world's biggest construction show, provided a perfect showcase for new solutions in the concrete sawing sector. PDi's Andrei Bushmarin reports.

A storageful of wire sawing innovations from Plattner

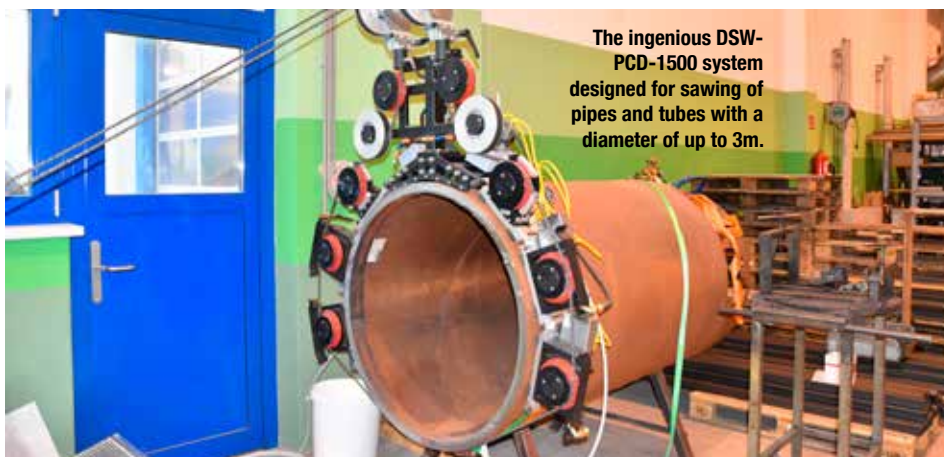
Based in Schwaz, Austria, Plattner GesmbH is a family owned manufacturing company that boasts an impressive 25 year track record in wire sawing. As per the time honoured tradition of all manufacturers worth their salt, the first prototypes of Plattner wire saws were designed and built by the founder Josef Plattner in his family house's garage. A few years later, Josef's inventions attracted the attention of Hilti that at the time was looking to get into the wire sawing business. In 1998, a long term successful partnership between the two companies began which continues to this day. Following the tragic and untimely death of Josef Plattner in 2012, his five children - David, Felix, Florian, Erika and Andrea – stepped in to pick up the mantle.

One of the most recent and ingenious solutions from Plattner is the DSW-PCD-1500 system designed for sawing of pipes and tubes with a diameter of up to 3m. The system allows the operator to control the contact angle of the wire during the cutting process without stopping the machine. Thanks to the modular and lightweight design, the machine is easy to set up and transport. Also new from Plattner is the mobile wire storage unit DSW-SW25. Boasting a storage capacity of 25m, it allows cutting large

slabs without shortening the wire, or moving the machine away from the cut. For dry wire sawing applications, the storage unit can be equipped with a cooling system that reduces the wire temperature by up to 20°C. Last but not least is the modular portal wire saw PWSS-3000. Wire saw portals are known to be bulky and difficult to

move around, which is not the case with the modular PWSS-3000. Designed to cut objects of up to 3m x 3m, the system, which is driven by a standard Hilti wire saw, can be disassembled into several smaller components that easily fit into a small carrier.

www.plattnergesmbh.com



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Cuttronix: an up and coming player from Estonia

Concrete sawing is a tight knit community, so every new player, particularly from a country as small as Estonia, causes a sensation. Kaskod-Mtronix OÜ manufactures and markets concrete cutting and drilling machinery under the brand name 'Cuttronix' made its global debut at bauma this year, where the Estonian company exhibited its products in hall A1 alongside the industry's heavyweights. The show was reported to be a big success for the rookie manufacturer, with visitors from over 40 countries beating their path to Kaskod's booth. Based on the in house developed 'ISRCdrive' motor technology, the Cuttronix wire saw CM-10AF-W200 is a compact, flexible price optimized system designed for use in confined spaces and limited access areas. The machine is capable of cutting at any angle, and is also suitable for underwater operations. Thanks to an automatic cutting force control, the saw maintains constant pulling force on the diamond wire. Wire sawing is performed from a safe distance using a wireless remote control.

www.cuttronix.com

B+BTEC keep cutting into the wire sawing market

First unveiled last year, the electric wire saw CS17-E from Netherlands based B+BTEC is getting traction with professional concrete cutters. One of the most recent case studies involved the CS17-E cutting the 7.2m x 0.75m concrete slabs at a metro track in Holland to allow for new construction. Designed for large scale demolition projects such as dismantling of bridges, chimneys and foundations, the machine has a rated power of 17kW (22kW at peak) providing a wire speed of up to 24m/sec. The CS17-E is equipped with a heavy duty water cooled dual action motor that delivers a high yet smooth torque. Weighing in at 355kg, the wire saw measures 1,500mm x 860mm x 880mm (L x W x H) with a wire storage capacity of 7.5m. The machine's



body and control panel are made of stainless steel for extra ruggedness, reliability and ease of maintenance.

www.bbtectools.com

Eurodima is back on track with new servomotor technology

Following a few years' hiatus, Austria based Eurodima is back on the global market with its new servomotor technology for wall and wire sawing systems. Debuted at bauma, the company's latest wall saw comes in two versions: one designed to operate with the standard Eurodima rail and the other with the Hilti rail. Weighing in at a mere 10kg, the motor relays 20kW of servo power to the blade with no after cooling needed. The machine accommodates diamond blades of up to 1,600mm in diameter, providing a maximum cutting depth of 725mm. A special flange for flush cutting can be installed on the motor's side.

The wall saw comes equipped with a wireless control unit as standard. Thanks to a number of new features aimed at reducing the wear and tear, the machine requires little maintenance (service intervals are every 250h). Also new from Eurodima is a wire sawing system, which, according to the Austrian manufacturer, is the only model on the market featuring servomotor technology. Due to the modular construction, the system can easily switch between the wire and wall cutting applications. A two speed gearbox generates high torque even at low speeds, and allows for a wide range of wire sawing tasks. A pneumatic wire tensioning system protects the diamond wire, while a lightweight and compact control unit ensures reliable operation.

www.eurodima.com



Tyrolit expands wall and wire sawing ranges

The brand new WSE1621 wall saw from the Austrian-Swiss trailblazer is an all-rounder allowing users to perform virtually any concrete cutting task. Accom-



modating blades of up to 1,600mm in diameter, this electric powered model delivers a maximum cutting depth of 705mm. All components have been redesigned to ensure an optimal weight to performance ratio. The saw head and the ultra-compact motor features a quick release clamp only weighing some 35kg. The control unit, which boasts a state of the art interface, completes the new system. In the field of wire sawing, the latest innovation from Tyrolit is the universal WCU17 model that works with both electric and hydraulic drives. Consisting of only three main components, the machine can be set up within the matter of minutes. Redesigned wire storage enables cutting concrete structures measuring up to 12.6m, with a multiple pulley drive ensuring a smooth start for the system. Another highlight of the new system is its modularity, which ensures full compatibility with Tyrolit's existing electric and hydraulic models.

www.tyrolit.com



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Advanced technology with TRS23 tiltrotator

With the addition of the new TRS23 tiltrotator system (TRS), Caterpillar Work Tools provides a full portfolio of TRS configurations for Cat wheel and track excavators with operating weights from 23t to 30t.

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

'SecureLock' ensures a positive tiltrotator connection to the carrier by using both hydraulic and mechanical locking mechanisms, as well as a sensor based confirmation system with audible signals and visual in cab indicators. Integral load holding valves are designed to maintain cylinder stability and to secure loads, even if lines are cut. Long term reliability and durability for the TRS23 result from the heavy duty bolted joint that secures the housing, rotator and coupler as a unit. The worm gear drive is designed with wide bearing surfaces that distribute excavation forces in all directions. In addition, the gear drive is submersed in oil to ensure positive lubrication in all operating conditions. Pins, shafts and bushings feature heavy duty construction and the hydraulic rotator motor is protected inside the cast rotator housing.

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



IMP – innovation in Indeco's multiprocessor range

Indeco's new IMP multiprocessor has a more robust body and has been redesigned to increase its maximum jaw opening, while its demolition, pulverizing and cutting geometries on the various jaws have also been improved.

The jaws have also undergone another key improvement, with Indeco IMP's crusher and pulveriser configurations now having interchangeable teeth. This means that unlike other products on the market rather than being disassembled individually, all are removed

together as they are welded onto a bolt on plate which is anchored to the jaw. This not only greatly speeds up replacement, but also improves grip, giving the attachment greater durability. The shear version has also undergone substantial innovation with the blades now being fully reversible and interchangeable so that they can be used for cutting at any angle. They have a dual profile piercing tip system with differentiated upper and lower tips, for a clean gradual cut.



INDECO'S NEW HP 100 MICRO HAMMER

The Indeco range of small hammers has been expanded with a new product, the HP 100, the smallest in the range, designed for mini excavators from 0.7t to 0.8t for working in restricted working areas. The challenge in development was in trying to make a hammer that could work with a decidedly reduced oil flow rate, from 15l upwards that

would maintain maximum hydraulic efficiency despite weighing less than 60kg. The result is the HP 100, which is said to have a larger steel diameter than hammers in the same class, and delivers good impact energy per blow, thereby reducing demolition times whilst ensuring high productivity levels.

Indeco's new developments unveiled at bauma 2019

Indeco presented new developments including a new range of IMH hydraulic mulching heads, two smaller demolition attachments, plus two key technological updates at bauma.

Given the growth in mini excavator sales, Indeco has created the new HP 100 and the IRP 5 X, respectively Indeco's smallest hydraulic hammer and rotating pulveriser, both capable of performance even in very tight spaces. The company has also introduced a whole new line of tools, IMH boom mounted mulching heads, manufactured and successfully tested by Indeco North America and soon to be available worldwide. These brand new products can transform

excavators and skid steers into powerful land clearing and maintenance tools in the forestry, gardening and landscaping applications.

That is not all however; "Last but not least are the technological upgrades on two of our major lines," says Indeco marketing manager Michele Vitulano. "The IMP multiprocessor has become even more efficient, with its improved design and the introduction of new interchangeable teeth in the crusher and pulveriser configurations and reversible cutter blades in the shear version. And then we've brought in a new dust abatement system for our hydraulic hammers, based on the latest OSHA directives, which minimises operator exposure to micro particles of crystalline silica."



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Travis Willison, vice president of GFL Infrastructure Group's demolition division.

Liebherr R 950 demolition excavator helps reshape Toronto skyline

R 950 demolition excavators are purpose built for selective deconstruction of large industrial buildings. The entire machine is manufactured by Liebherr, meaning all systems are complimentary and integrated into the design. By working from the ground, a Liebherr 'High Reach' can eliminate the need of having another piece of equipment on site to take down structures below 4.5m, with the machine being able to work in a 360° radius, which is important on tight job sites and makes installing demolition attachments easier.

Based in Toronto, GFL Infrastructure has several Liebherr High Reach demolition machines which, "Never let you down," says Travis Willison, vice president of the company's demolition division. "The automatic lube systems on them are fantastic. The hydraulic systems are amazing. One of the major benefits of the machine is it's a single float, so anytime you need to pick it up to go somewhere it's quite easy." Willison adds, "The industry has changed in Toronto a lot, everything is getting tighter. There's no space, no room to get at things."

With a reach of 25.3m and the capacity to handle a 3,502kg tool, the R 950 is large enough for major jobs, but despite its size, the R 950 is easily transportable thanks to a hydraulically expandable undercarriage. This undercarriage makes the machine easier to move to and from job sites because it retracts the undercarriage width. It also can expand to create a wider footprint, which enhances stability.

"High reach machines have eliminated the wrecking ball," says Willison, who has nearly 20 years of experience in the industry. "The wrecking ball was a great invention for its time. It was used on conventional cranes. There wasn't a whole lot of hydraulics involved with it. It was a great concept but engineers have come a long way with these designs." Further aiding Willison's operations Liebherr High Reach excavators also have a plug in boom section where the attachment is mounted, allowing the machine to be used for multiple tasks. A camera provides visibility to the operator when tools are placed inside structures, and gives the operator a better view at all times when the end of the tool is out

of sight. To see how the high reach excavator could be of assistance on various projects, dozens of people had an opportunity to operate the R 950 and four other Liebherr machines at the National Demolition Association's Live DEMOLition event at Demolition Rockies 2019 in Aurora, Colorado recently.

Willison further adds, "Modern demolition machines are much safer, much neater and much quicker. You can organise your material properly. The operator is a safe distance away from the building when he's working. It's the way of the future." The new Liebherr excavator is helping Willison to work with clients to implement job specific, environmentally sustainable waste management, disposal and erosion control methods.



BOART LONGYEAR drills deepest hole in Ghana

Boart Longyear crews drilled the deepest hole ever drilled in Ghana: a hole 2,083.4m deep.

The team installed a wedge and navi drilling the hole on track at 600m, keeping on track to the end of the hole, with the directional drilling project being completed safely and ahead of schedule. Boart Longyear acknowledges the participation, collaboration, and contributions from every employee within its Ghana operation, especially the drilling crew that worked directly on this record depth hole.

West Africa division manager, Jonathan Madigan commented: "Our drilling crew in Ghana on this project worked safely and diligently in directionally drilling the hole to the target depth. I couldn't be more proud of the team that completed the project. Boart Longyear's consistent hazard and risk focused safety culture is embraced by the crews here in Ghana, and they appreciate that the field level risk assessments, pre-shift meetings, and other safety programmes, are designed to get them home safe to their families."

Established in 1890, Boart Longyear is a provider of productivity solutions for diamond coring exploration, reverse circulation, large diameter rotary, mine dewatering, oil sands exploration, production and sonic drilling services. The company also manufactures, markets, and services reliable drill rigs, drill string products, innovative down the hole instrumentation tools and quality parts. Boart Longyear is headquartered in Salt Lake City, Utah, USA.

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New products from Arden Equipment

Arden Equipment is releasing a multitude of new products, some of them shown at this year's bauma. Below we take a look at the latest machines.

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

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

Arden has also incorporated a technology booster to the demolition shear CU031, which brings integration with a single booster that supplies pressure to two cylinders up to 700bar. This new booster technology

uses compact cylinders to reduce the cycle time and increase the efficiency of the equipment. It also reduces the weight by 100kg while maintaining the same destruction force. The reduction in weight also generates a saving of fuel of 1l/hour.

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

The new Arden 'TiltRotor', Arden's multidirectional quick hitch, allows 40° tilt in all directions with telescopic cylinders and a 360° rotation. This system increases the versatility of the machine by eliminating additional equipment on site. The TiltRotor can be monitored with a joystick directly from the cab which allows the operator to perform work without systematically moving the machine, and thus reinforces the safety of operators on site.

The Arden 'Rail Grab', which allows rail handling, has been designed to make it easier to take rails back onto the stem below the rail top without leaving a trace on the rail. This avoids any breakage risks and makes sure the rails remains fully operational. The common base with ballast loaders designed for railway works offers a flexible and economical solution in terms of investment. Lastly, Arden has extended the Arden 'Jet technology' line (a high pressure water spray system for reduced dust emissions) for its hydraulic rock breakers for carriers from 0.8t to 100 t. This tool is particularly useful in demolition, earthworks or even quarry work where dust is generated.



Allu and Mapei Circulus transforms returned concrete into high quality recycled aggregate

The Allu Mapei Circulus system is aimed at large and medium sized RMC producers, or cement /concrete recycling companies that wish to reduce the cost of handling returned concrete waste. The system uses the Mapei Re-Con Zero chemical together with an Allu Transformer. With the Re-Con Zero the wet returned concrete is transformed into a dry granulate, the Allu Transformer then processes the hardened lumps and screens them into a specified aggregate size to be recycled with fresh concrete. This enables concrete manufacturers to then use between 5% and 30% of the recycled aggregate combined with new concrete, which is said to bring savings through reducing costs buying in virgin aggregate. The system also reduces the amount of washed out sludge from concrete trucks, with waste sludge being an environmental challenge that has to be landfilled, and is therefore an additional cost for concrete producers.

The Allu Mapei Circulus system assists the concrete industry towards sustainability in concrete manufacturing. The global consumption of concrete is a staggering 23Bt each year, and it is estimated that approximately 2% of all concrete produced in the world is returned to the producer, with the majority being landfilled. An estimated 5% of all man made carbon dioxide emissions stem from cement and concrete production, with 2% of produced and returned concrete adding up to 460Mt being unnecessarily landfilled, resulting in a staggering total of 53Mt of carbon dioxide being emitted. Through use of the Allu Mapei Circulus, the manufacturers say up to 96% of the above-mentioned CO₂ emissions may be reduced.

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NEW PRODUCTS FROM HUSQVARNA

Swedish manufacturer Husqvarna has announced the release of several new products, including new power cutters, floor grinders, floor saws and its new fleet services, to name but a few. Here's the latest from Husqvarna.

First out is the new Husqvarna K 770 VAC and K 770 'Dry Cut' power cutters providing dry cutting solutions for handheld machines for applications where wet cutting isn't an option, for example when water is in short supply or when regional regulations forbid slurry. The construction of the blade guard helps collect the resulting dust from cutting which can then be transported away and contained. The K 770 VAC is equipped with a flexible hose connector that is attached to an external dust extractor, such as the Husqvarna S 26, providing dust transportation and containment.

The portable K 770 Dry Cut is equipped with a cutting arm with an integrated fan. The fan's strong airflow (2.833p/min) effectively removes the dust and transports it to a designated bag where it's kept contained thanks to its integrated nozzle. The bag is washable and reusable but can also be disposed of. Both power cutters provide a cutting depth of 122mm, whilst an integrated gearbox reduces the speed of the blade in order to optimise the removal of dust, transporting it via the blade guard either to the external VAC unit or the external bag.

Husqvarna Fleet Services

Husqvarna 'Fleet Services' is a digital solution for asset management. It enables construction contractors, fleet managers and rental companies to stay on top of their

machines, providing information on how well they are performing, where they are located and each machine's service needs. The data is collected and transmitted through a sensor puck, which is easily attached to the equipment, with some of Husqvarna's equipment already having a location specifically made for this. The sensor will fit on non-Husqvarna equipment as well. Once installed, a plethora of information is available via a smartphone app and laptop portal.



Husqvarna 'Hipertrowel' system

This is a fast and easy six step process to create polished concrete floors on large areas by the use of a ride on power trowel. Up to 1,000 m² of ready floor per day can be produced with this solution thanks to the passive gyro driver and the magnetic mount of the new 'Hiperflex' TRW diamond tools.

New drill stand Husqvarna DS 500

The new medium size drill stand DS 500 has been developed for the Husqvarna DM 340 and similar high powered single phase drill motors. It delivers good drilling performance with increased rigidity and reduced weight. It's recommended for core diameters up to 400mm and will be available in late Q2.

New floor grinder Husqvarna PG 510

The Husqvarna PG 510 is a planetary floor grinder with three grinding discs and a total grinding width of 515mm. It's suitable for removing coatings, grinding and polishing concrete and has been designed for both professionals and semi-professionals, making it an ideal rental machine. The grinding head is sealed to protect the bearings and belts from moisture and dirt,

has an optional one or three phase motor, and is set to be available in Q3.

New electric floor saw Husqvarna FS 500 E

This is a small sized floor saw delivering up to 187mm cutting depth, powered by a 7.5kW electric motor. It is said to be easy to operate, and includes such features as a built in water tank with optimised water flow to the blade, automatic soft start and phase error detection. It comes with Husqvarna Fleet Services connectivity and is set to be available in Q4.

Husqvarna battery blades

Husqvarna battery blades have been developed to provide optimised performance and facilitate the smooth operating of the K 535i battery power cutter. The blades all feature smart indicators and have been specifically designed to improve the performance out of a battery powered power cutter.



Husqvarna LP 9505 trench compactor

The new trench compactor has been developed to deliver productivity in demanding trench compaction jobs. Whether dealing with steep, tight or loose soils, the Husqvarna LP 9505 possesses a number of solutions, including articulated steering, a radio remote control and drum pads, in order to undertake the work required.

Husqvarna 'Mamba' wire

The Mamba wire solution comprises of a hybrid bead with new vacuum technology allowing operators to choose high speed cutting while still benefitting from the efficient life span of the diamond wire, thus improving productivity and increasing performance.

One piece blade guard

This new development is a blade guard ideal for those occasions where a dividable guard is not required, or desirable, thereby enabling the use of a two or three piece Husqvarna blade guard for more complicated jobs. It's available in two sizes to fit Husqvarna diamond blades diameter of 840mm and 1,085mm.

Husqvarna T 4000 dust extractor

The T 4000 is a three phase industrial dust extractor designed to match Husqvarna PG 530, PG 450 and PG 400 grinding machines as well as small to medium scarifiers, shot blasters and shavers. It's ideal for heavy duty work and the exacting demands of dust extraction, and is equipped with a quiet turbine motor delivering good airflow.

Husqvarna Z-Edge blades and drill bits

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



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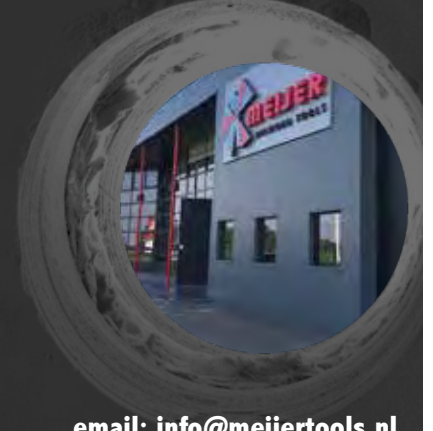
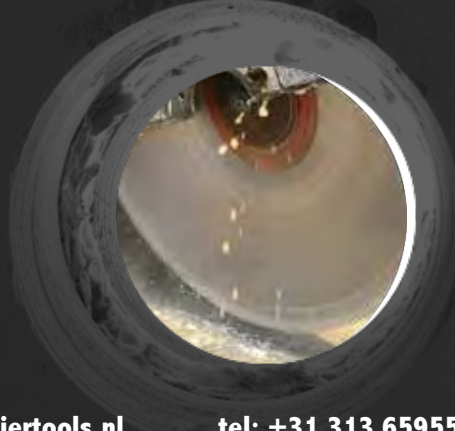
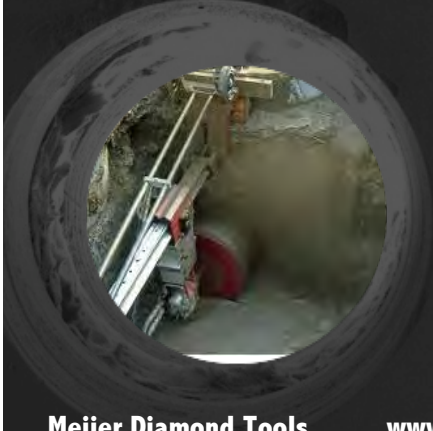
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Pladdet throws the doors open to customers and friends

On 24 and 25 May, Pladdet the Netherlands based attachment specialist and accomplished excavator modifier, held 'Open Days' for customers, friends and family members alike at its headquarters cum factory in Biervliet, south west Holland. Filled with various activities for both adults and children, the two day event exceeded all expectations. Andrei Bushmarin reports.

On the unseasonably cool last days of May, Pladdet threw open the doors of its newly expanded facility in Biervliet to welcome some 5,000 visitors from all over the globe. In terms of numbers, Europeans dominated the crowd, but guests from South Korea, India and the USA attended the 'Open Days'. It was not the first event of this kind organized by the Dutch manufacturer, and going on previous experience the company expected only about 3,000 visitors to turn up. Pladdet's co-owner and managing director Jonathan de Putter said: "I am more than satisfied with the visitor turnout. This is a record number for us, and we are very happy that more and more people are willing to come to our factory to get to know Pladdet. The main purpose of the 'Open Days' is to give our

dealers and their customers a first-hand impression about our range and manufacturing capabilities."

The attendees were indeed given an inside look into Pladdet's working routine: they could watch how a 3D drawing of an attachment is created, how the welding of a bucket is done, or how a milling machine works. Outside, with a little help from Pladdet's staff, they could try their hand in operating an excavator or a compact loader. As a matter of fact, the 'Open Days' were also a 'celebration in retrospect' of the company's 75th anniversary, which officially happened last year. Pladdet, however, was too busy extending its Biervliet facilities to celebrate back then, so festivities had to be put off until this year.

www.pladdet.biz

Mobile magnet system separates both ferrous and non-ferrous metals

Cooperation between Dutch company Goudsmit Magnetics of Waalre, and German company Sortatec, has resulted in a mobile metal separator that separates both ferrous and non-ferrous metals from bulk flows. The companies will jointly demonstrate the Goudsmit Mobile MetalXpert at Recycling Aktiv in Karlsruhe, Germany (outdoor area, stand F356).

The magnetic separator is easy to position, and is designed for coarse bulk flows such as shredded wood. This enables ferrous pieces, such as nails, screws, staples and hinges, as well as non-ferrous pieces such as door handles and strips, to be removed from bulk flow waste. The result is three separate material flows: ferrous, non-ferrous and clean (inert) bulk material which can then be reused. In addition to wood, the mobile machine is also suitable for construction and demolition waste, refuse derived fuels, industrial waste and so forth.

A spreading plate provides the infeed and breaks up the bulk, which then distributes the material over an angled feeder belt. This monolayer is ideally suited for use with an over band magnet that removes the iron out of the flow and, if desired, diverts them to the left or right. After the iron parts are removed, the bulk is transported to a 2m wide eddy

current separator. There a powerful 22HI rotor separates the non-ferrous metals from the bulk material.

The metal separator has a capacity of 100m³/h and is fed by a 2,000mm wide feeder belt with speed control. The robust ferrite over band magnet contains material guide chutes, with the eddy current separator having a 2,000mm wide 22HI rotor spinning at 3,000rpm, with both discharge belts being hydraulically height adjustable. The mobile unit is built on a single axle trailer and is suitable for public roads.



www.recycling-aktiv.com



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ULTRADIA SETS THE PACE FOR THE CARBODIAM GROUP

Based in Mont-Saint-Guibert, Belgium, Ultradia is a trading arm of Carbodiam and JFC Group, a world leading manufacturer of diamond consumables for professional sawers and drillers. According to Enrico Mariotti, Carbodiam's export sales director and a concrete sawing industry stalwart, Ultradia's successful business model sets the pace for the entire Group to follow. Andrei Bushmarin reports.



Ultradia's headquarters in Mont-Saint-Guibert, Belgium.



At first glance, Belgium might seem a small market for diamond tools size wise, but on a 'per capita' basis, it is one of the biggest and most lucrative in Europe. Geographically, the country enjoys an advantageous position in the middle of the continent, which allows Belgian suppliers to provide goods and services for their domestic and international customers rapidly and efficiently. Located at a crossroads of the two big highways that reach into all corners of the country and

only a half hour drive from Brussels, Ultradia could not wish for a better location.

School teacher turned surface prep expert

Concrete sawing and grinding is not something they can teach you at school, is it? It is a trade, which one usually learns along the way. Eric Simon, who has been with Ultradia since 1997, began his career as a secondary school teacher. Having dedicated seven years of his life

to educating young people, Eric went on to work for a Belgian engineering company as a salesman and technical consultant. This job saw him travel all over Africa, the Middle East and Europe. When he was invited to join the newly established Ultradia, he considered this employment to be a 'curious challenge' that would only last for a short while. But the industry's ways are such that 22 years on Eric Simon is still there, now managing the company. Over the years, he has learnt pretty much everything there was to learn about the diamond tooling trade, in particular the grinding and polishing side of it. Today Eric Simon sits on the board of the CSTC (national technical and scientific centre for construction), advising industry players on the latest concrete cutting and surface preparation solutions.

Surface preparation is a growing business in the Benelux

Founded 25 years ago, Ultradia has come a long way since its early days. The company was among the first in the domestic market that recognized the potential of surface preparation and began zooming in on it. At that time concrete grinding and polishing machinery was very hard to come by. Ultradia plunged ahead fearlessly and in 2004 established a long standing partnership with Italy based surface prep specialist Klindex, which continues to this day. And time proved that it was the right move to make. Eric Simon, whose knowledge of the Benelux market is second to none, points out that

Ultradia's team (left to right): Anne Henrioulle (accounting and administrative), Eric Simon, (general manager), Maud Brasseur (marketing), Gaetan Mathay (purchasing and after-sales manager), Guillaume Oostland (Maintenance centre manager), Kris Vos (Sales and social media), Frank Vanhoutte (Sales Manager).



in the past few years the industry's landscape has been changing, with surface preparation techniques increasingly coming to the forefront. That said conventional

machinery and diamond tooling such as Weka drilling systems (that Ultradia has been selling and servicing since 1998) are still popular with local contractors.

Young vibrant team

The lack of young professionals is a universal problem in the concrete sawing and demolition industries as youngsters, sadly, tend to go for less-hands on profes-



Ultradia's maintenance centre.



Eric Simon at work.



sions these days. Ultradia, however, is very fortunate in this sense: it has a vibrant 11 person team, most of who are in their 30s or younger. Frank Vanhoutte, Ultradia's sales manager is probably the most telling example of the industry's 'new blood'. Now aged 38, he had been a professional concrete cutter with four years field experience before he joined Ultradia's sales force.

Well balanced business model

For many years now, Ultradia has been following an in house business model that combines direct sales to end users with trading through a selected number of trusted distributors. This strategy proved very successful in the Belgian market, establishing a positive example for the group's other business units. Online sales are another side of the business that the Belgian company is now actively developing. Regarding this purpose, it has recently launched a new website featuring an online store, which is said to be gathering traction with buyers.

The 'Incisor' is back!

Since its launch back in 2001, the 'Incisor' diamond blade has won the hearts of many a concrete cutter all over the globe. Pricy but extremely productive, the Incisor with its aggressively sleek design remained a Carbodiam signature product for well over a decade. Ironically, the Incisor's success became the very reason for its downfall when too many less than scrupulous competitors began to copy the blade's design, while failing to ensure the same characteristics. To preserve the brand's reputation, Carbodiam had to pull the model from the market in 2013. However, it did not take long for customers to start pestering the manufacturer with requests to bring the Incisor back in to the game. Carbodiam eventually relented, and in early 2019 developed a new generation of the famous blade. The Incisor Generation 2 featuring the familiar segment design will come wrapped up in a brand new packaging. The launch is slated for the second half of the year.

www.ultradia.be

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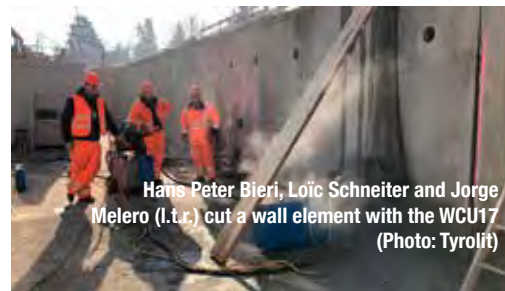
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Concrete wall removal

As part of the construction of the new Lancy-Bachet train station in the Swiss city of Geneva, a concrete wall, which had been used to hold back soil during the construction work, needed to be removed in late February 2019.

The Geneva railway station job was carried out by the company Coupe Beton & Rénova in cooperation with Tyrolit. The concrete wall that needed to be removed was located directly next to the new train station, and therefore had to be cut down carefully in order to avoid any damage caused by tremors and vibrations. To remove the wall of 3m height and 30m in length, a horizontal cut was made along the bottom with Tyrolit's WCU17 wire saw, separating the wall from the ground. Also, using the WCU17, the 1.2m thick wall was



Hans Peter Bieri, Loïc Schneiter and Jorge Melero (l.r.) cut a wall element with the WCU17 (Photo: Tyrolit)

then vertically cut up into elements with a maximum weight of 11.5t each, which were then lifted away with a crane.

The majority of the cutting work was done with the WCU17 wire saw. For Coupe Beton & Rénova, it was the first time they used the newly acquired WCU17. When it comes to the cutting of concrete, the DWM***-C saw wire serves as a complement to the WCU17, delivering an efficient cutting process.



IMPROVED ACCESSIBILITY OF COBBLE STONE AREAS

The OX square is located in the centre city of Heitersheim, which is located roughly 25km south of Freiburg between the Black Forest mountains and river Rhine. The square is paved with granite cobble stones enhancing the atmosphere of the area. However, this is the problem of the square. The rough and uneven surface is a huge barrier for people depending on wheel chairs, rolling walkers or children's pushchairs. For these, the square is difficult to pass without a great deal of effort which has led to many complaints.

The same problem occurs in many cities and communities leading local authorities to often select very expensive and elaborate measures to deal with the problem. Cobble stones are taken out of the ground and re-laid following ground-works. These tend to be long lasting projects impeding the use of the areas and are very expensive.

Heger has the solution

In the autumn of 2018 the city council of Heitersheim started a project with Heger to find and develop a fast and cost efficient method to solve the cobble stone problem. Heger has many years of experience in 'grinding' traffic areas and roughening surfaces with diamond blades. In close collaboration with Lissmac GmbH, a system has been designed to eliminate the barriers of the cobble stone areas.

For the project, a Multicut 900 floor sawer with slurry suction, and a prototype grinding module with 135 TBX30

Ø300mm diamond blades with a working width of 600mm was used. The goal was to achieve an even, but slip resistant surface that maintains the atmosphere of the old cobble stone square. The standard for barrier free walkways requires a total width of 1m where borders, with another condition being vibration free treatment to protect the existing infrastructure, leading to the preclusion of milling.

The works were executed in two stages: after setting the future walk ways by the city council, the first lane was ground. The scanning wheels of the grinding module are in a direct line with the grinding shaft, meaning that the grinding structure precisely adapts to the level of the surrounding surface.

In the second step, the machine returns to the starting point, with the scanning wheel adjusted to the first lane. As soon as the grinding set touched the floor the correct height was achieved. The left scanning wheel was then levelled to the required grinding depth. The total project was completed within 3h. Due to the efficient and residue slurry suction a site barrier could be avoided, with the actual working zone being limited to the machine operation itself.

This technology led to a 50% reduction in costs when compared to the standard working method of replacing paving, with there being no obstruction to traffic. The city of Heitersheim was very happy with the process, especially its fast and efficient operation, with the city's service department merely having to provide a water supply and define the walk way.

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NEW PRODUCTS

The treatment of silica dust and concrete slurry is a pivotal aspect on most worksites today, directed by strict regulations.

In this special feature, we look at the latest wet vacs, air cleaners and other equipment used in dust extraction to keep the worksite safe and clean.

Sneak view of Dustcontrol's latest development: DC BattVac

At this year's bauma, visitors had their first look at Dustcontrol's new DC BattVac, which was displayed as a prototype to gauge the industries reaction prior to the final of development of the dust extractor. DC BattVac is the market's first battery powered dust extractor for professional use and includes HEPA H13 filter. It is powerful, robust and equipped with Longopac with the capacity to do the same job as the popular DC 2900, but now battery powered.

www.dustcontrol.se



Husqvarna Construction Products

Also at bauma, Husqvarna released a new three phase dust extractor, T4000, designed to match Husqvarna's PG 530, PG 450 and PG 400 floor grinders as well as its medium sized scarifiers, shot blasters and shavers. T4000 is designed for heavy and demanding work and is equipped with a silent but powerful turbine engine which delivers exceptional air flow. Its jet pulse function



takes away dust from the cone shaped pre filter without the need to open the machine. It is equipped with two individually tested and certified HEPA filters (H13) which provide long service intervals. It has a 50Hz frequency, 4kW power and plug amperage of 16A, airflow is 400m³/h has noise levels of 73dB and weighs 106kg.

www.husqvarnacp.se

HTC

HTC launched a new machine series called 'Start & Grind'. This includes dust extractors (D10, D20, D30 and PS30), and a pre separator. HTC D10 is a light dust extractor best suited for handheld grinders, whilst HTC D20 is a powerful dust extractor recommended for HTC 280 and 450, with HTC D30 being a powerful single phase dust extractor with three vacuum motors. All dust extractors have HEPA H13 filters and have H Class certification: the highest international standard for testing of wet and dry vacuum cleaners. The new series also includes three floor grinders with a focus on simplicity in transportation and handling.

www.htc-floorsystems.com



that collect the smallest, most harmful particles



Superabrasive

Superabrasive, the manufacturer of the Lavina line for floor grinding and polishing, offers a complete range of electric and propane dust extractors to match grinders of all sizes. They are best suited for use on commercial, industrial and residential grinding projects where dry grinding is performed, protecting workers from hazardous dust emissions. The range of electric vacuums includes three different sizes for use with grinders from 330mm to 810mm offered in different voltage options. The propane range includes four vacuum sizes with the newest addition V38GX, being equipped with 30 cartridge filters and 4 HEPA filters.

All Lavina vacuums include large filter areas and HEPA filters, powerful and sustained airflow, Longopac continuous bagging and metal camlock hose attachment. All larger models have integrated pre separators, and automatic cleaning with an option to adjust the cleaning interval. A new air scrubber, LA2000, has also been introduced, which provides additional dust protection and cleaner air on the job site.





New vacuum cleaners from Brøndum

At bauma, the Danish manufacturer V. Brøndum A/S introduced its new H-class vacuum cleaner Ronda 1800H Power, as well as cyclone pre separators Ronda CF 502P and CF 502A. The Ronda 1800H Power is designed for concrete and other fine and hazardous dusts, working both as an ordinary vacuum cleaner for cleaning construction sites, as well as a dust extractor with hand tools when cutting and grinding of concrete. The machine is partly made of conductive materials to ensure the discharge of static electricity, is easy to handle and transport due to its protecting metal frame and large wheels.

The cyclone pre separators feature metal cyclones suitable for the construction industry, separating up to 98%-99% of vacuumed material. When vacuuming large quantities of very fine dust, using a pre separator protects the filter system of the vacuum cleaner from

overload, with a pre separator also being beneficial when extra collection capacity is required. The Ronda CF-502P is the standard version of the two and is equipped with a plastic container, whereas the CF-502A is equipped with a metal container to prevent static electricity.

The company also presented Ronda's new negative pressure units and air cleaners, namely Ronda NPU 1250, Ronda NPU 2500 and Ronda NPU 5000. All three models are robust, easy to use and designed for the construction industry. Each unit is equipped with a large pre filter as well as a HEPA 14 filter. All three models have large wheels and four handles which make the Ronda NPU's easy to transport.

www.broendum.com



Jack Midhage AB

The Swedish dealer Jack Midhage AB offers ionizing air purifiers under its own brand as well as the newly launched Jonex range. Through ionization the air is filled with positive and negative oxygen molecules which clump together the contaminants to bigger particles, until they fall down on the floor and stay there. The effect lasts for several hours which make it easier for the vacuuming and sanitation of the worksite. Midhage also offers filter presses from Lissmac, a solution which facilitates slurry water treatment at the worksite. The process is fully automatic and doesn't require attention.

Midhage also supplies dry and wet vacs as well as air purifiers from Finnish manufacturer Strong, and a recycling wet vac for concrete cutters, the Ronda 370. The latter has a built in cleaning system that collects concrete residue in a filter bag. The water in the vac can be reused during the job, with the vac being connected to the cold water hose. Because of this, there is no need to connect a hose from an external water supply when drilling or sawing. The waste bag is replaced after work and then contains only clean water which can be dis-

posed of. As well as the mentioned equipment, Midhage supplies a water collector for concrete waste which is made out of recycled rubber.

www.midhage.se

Oxysan

The ionizing air purifiers Oxysan, manufactured by Renluftsteknik, have been updated. In Sweden, the products are sold by Jernevikens Maskin. Oxysan is available in four different models: OxySan 200, OxySan 1000, OxySan 2000 and OxySan 4000.

www.jernevikens.se

Blastrac

Blastrac has released its new BDC-187PLP-UD, which is a petrol powered dust collector for outdoor jobsites. The BDC-187PLP-UD is equipped with a Longopac bagging system that allows the collection of dust in easy to handle 25kg bags. In addition, the BDC-187PLP-UD is equipped with the 'Up & Down' system (low position for transportation, and high position for when in operation) which makes it easy to transport from jobsite to



jobsite. It can be used in combination with the Blastrac BMP-335GHY scarifier and BMC-335GHY sawing machine, meaning that there is no requirement to take a generator to the jobsite.

A new pre separator, BPS-LP-0020, has been released to provide a flexible and light weight pre separator for small Blastrac dust collectors. It is made from sustainable, commercially attractive and environmentally friendly lightweight plastic materials that are recyclable, making it user friendly due to its extremely low weight. The pre separator can triple the lifetime of dust collector filters as it captures up to 95% of dust. The separator is multi usable due to a trolley system which can be used as a standalone unit, and also with hook on system which makes it possible to attach the separator to the BDC-122 and the BDC-133. The Blastrac BPS-LP-0020 is equipped with a Longopac bagging system, which is easy to mount and handle. In addition, the manually operated valve ensures that the full Longopac bag can be changed while the dust collector remains on, thereby reducing downtime.

A new line of single phase dust collectors for the professional end user has been developed and launched, which are M and H class certified, feature Longopac bagging systems, and are suited for both smaller and larger jobs. The line includes the BDC-1133, BDC-122M, BDC-122HC, BDC-133MUD and BDC-133HCUD, with the BDC-1133 being an M/H-class dust collector that handles hazardous materials and is TRGS519 certified for safe asbestos removal. One of its features is a permanent reverse air pulse filter cleaning system, high suction performance and sealed airflow. BDC-122M (M-class) and BDC-122HC (H-class) have new generation M-class filters, a manual hand shaker on top and two motors (Ø50 mm inlet). The latter is equipped with secondary H14 HEPA filter and works well treating hazardous materials such as asbestos.



The BDC-133MUD (M-class) and BDC-133HCUD (H-class) are also equipped with M-class filters, have a manual hand shaker on the side, and high suction power from three motors with a Ø70 mm inlet.

www.blastrac.com

Sila

Sila has introduced four new air purifiers: 600A3, 1000A3, 2000A3 and 5000A3. They are all equipped with a coarse filter hatch which makes changing the filter easy and provides protection. All models are equipped with a HEPA H-13 filter and are available with washable pre filter or 'one time' use pre filters. The 600A3 is designed to take up as little space as possible and is suited for smaller spaces such as restrooms. It can deal with rooms up to 23m² and has two air outlets. The 1000A3 has a capacity of 1000 m³/h do deal with the requirements of large rooms of up to 40 m². The suction inlet, where the coarse and HEPA filter is located, is well proportioned enabling work to be undertaken for a long period of time. The machine's smooth sides make it easy to keep clean, with it being possible to stack the 1000A3 for use and storage. The 2000A3 has a capacity of 2000m³/h and can be used for very large spaces of up to 80m². It is equipped with large wheels and an adjustable handle for simple transportation.

The 5000A3 has been developed to clean the air in large rooms and handle large quantities of dust. It is equipped with two HEPA H-13 filters of a total of 26.86 m². Because of its design, the upper filter gets less contaminated with heavy dust, which prolongs the life time of the machine. It has two air outlets which make



it possible to create a negative pressure while at the same time circulate the air. It is also equipped with a lifting eye bolt, a filter watch per filter and step less speed.

As an additional extra, Sila also offers a patented decontamination frame, providing an alternative to the work necessary to build temporary walls of plastic to prevent the spread of dust. The decontamination frame is placed on Sila's products, on top of the plastic towards the air purifier with the help of magnets.

www.silaproducts.com

Delfin Vacuums

The Italian manufacturer Delfin Vacuums, based in Settimo Torinese, offer efficient industry vacuum cleaners. It has a wide assortment and offers several product series for the treatment of fine silica dust with the Longopac system. All of the vacuum cleaners are certified to various standards, and are equipped with HEPA filters.

www.delfinvacuums.com

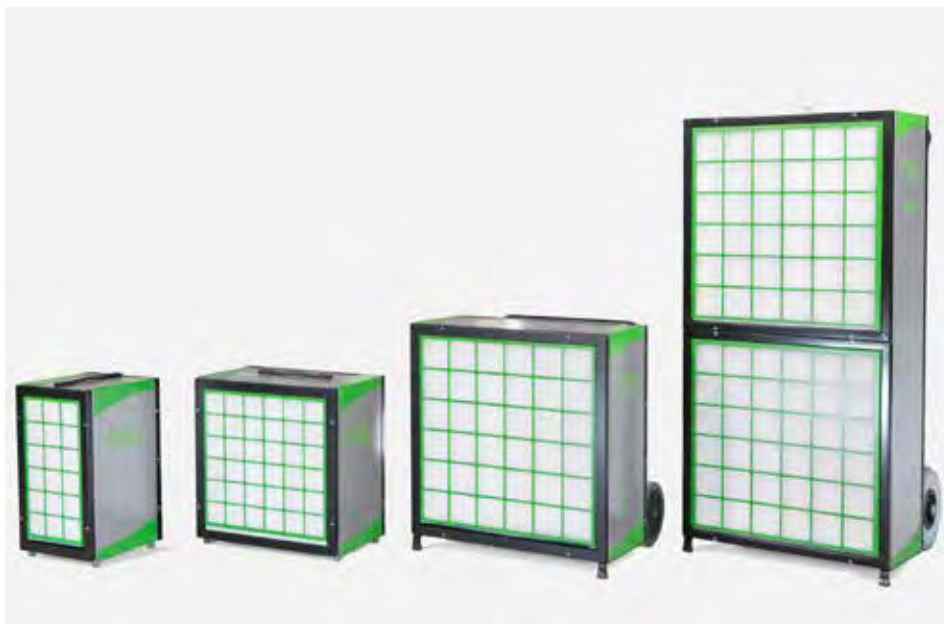
Scanmaskin

Scanmaskin has launched the ScanDust 8000, which is a propane powered vacuum as part of the 'World Series' range. The new propane powered vacuum is designed to make the workday easy and efficient for the user, and features a cyclone which can be raised or

lowered, thereby making handling and transportation easier. Both front and back wheels have been modified to make the transportation as efficient as possible. A built in pre separation system eliminates the need for a pre separator, with the filter area having been extended

enabling a longer runtime in between separation periods. The vacuum has also been equipped with a HEPA 14 filter, and a further developed 'Jet-Pulse' system for cleaning the filter.

www.scanmaskin.com



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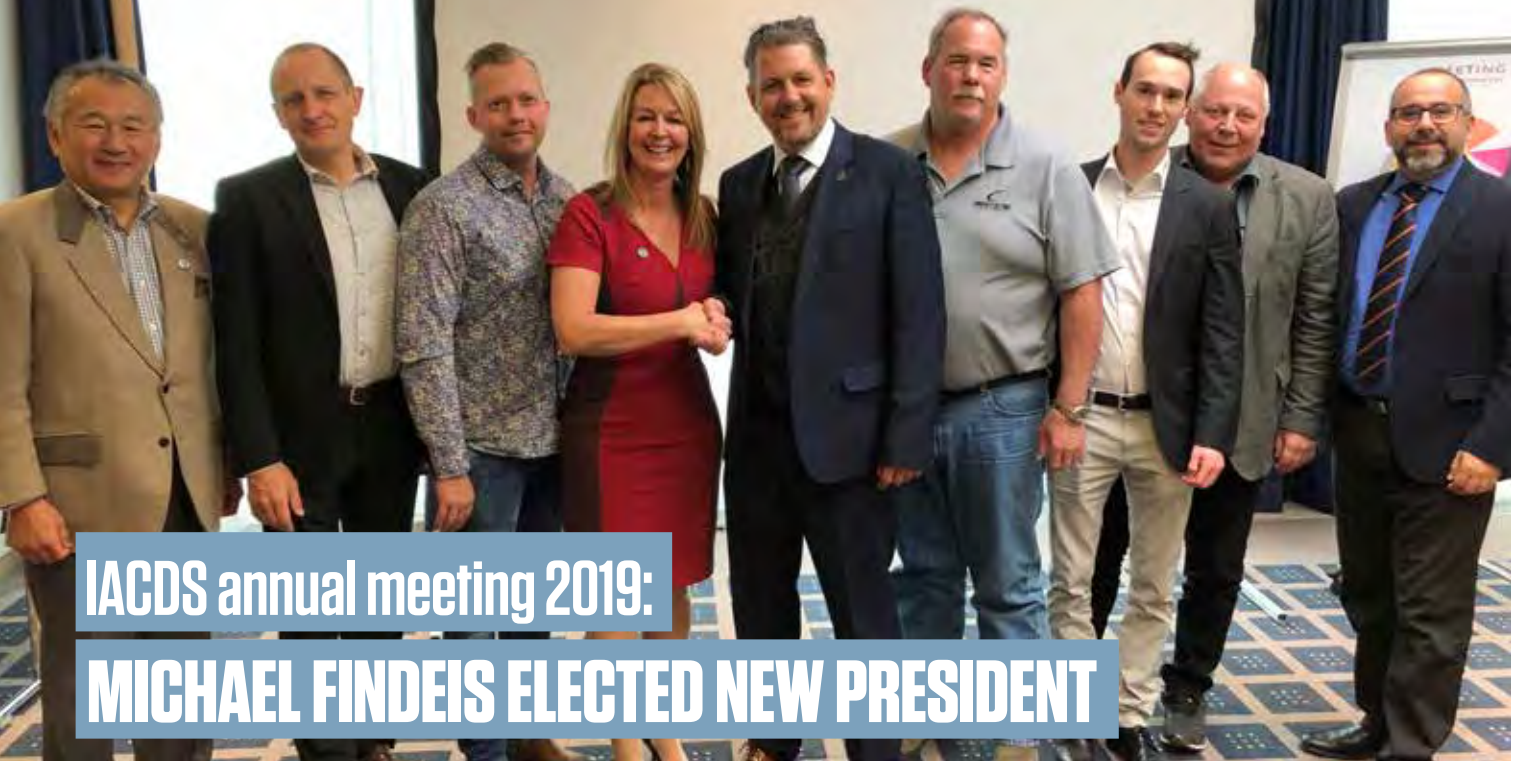


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In the middle: Past president and current vice president Julie White shaking hands with the new IACDS president Michael Findeis. From the left board members Norikazu Shibuya, Martin Gödickemeier, Anders Andersson, treasurer, Doug Walker, vice president, Roderick Braun, Lars Sandström, and José Blanco, secretary.



IACDS annual meeting 2019:

MICHAEL FINDEIS ELECTED NEW PRESIDENT

The global umbrella organisation for concrete cutting companies, IACDS, has elected Michael Findeis from Germany as its new president. Julie White, from the UK, is leaving the post after four years in the position but remains as vice president.

On Sunday 14 April, IACDS held its annual meeting at the Novotel hotel near the bauma exhibition centre. Here some 25 delegates from Germany, Austria, Switzerland, Liechtenstein, United Kingdom, Spain, Japan, USA, Canada and Sweden as well as three manufacturer members, representing Hilti, Tyrolit and Braun Maschinenfabrik gathered.

Julie thanked for four great years

President Julie White welcomed all the delegates and officially opened the meeting. Julie took a moment to look back on the four years she has been president of the IACDS, thanking everybody for their support. The meeting audience replied with a long round of applause for her great and engaging work as president. The meeting continued with the general assembly, where secretary José Blanco, reported on the latest assembly protocol, making a quick summary of the work undertaken by the association during the last twelve months. He mentioned the work creating a world wide concrete cutting training card, the establishing of an annual market report estimating the size of the concrete cutting industry, and briefly spoke about the recent visit to Japan last year, thanking Norikazu Shibuya for facilitating arrangements.

José also mentioned different industry events where IACDS had participated, specifically meeting with the national associations of Italy, France and Sweden in con-

junction with the DEMCON fair and in the USA, Spain and Germany. Philippe Wingeier reported on the opening of the new German concrete cutting museum which is open five days a week, and next to it are the German association's training facilities. Thomas Springer, president of the German association, reported on the German annual meeting, whilst Maria Land from the Austrian association informed the meeting how the Austrian association has restarted its activities after a brief hiatus.

IACDS Market Report 2019

After the introductory talks, delegates reported on the current market situation in their home countries. Colin Walker and Joel Vinsant from the UK association expressed their frustration over the fact that the Brexit issue has not been resolved yet, which is causing disruption and uncertainty in the market. "We are in a stage of limbo right now and when the Brexit issue is solved I think we can move on with our lives," said Colin. The UK association has 93 contractor members and 13 suppliers, with there being about 250 concrete cutting firms in the UK in total. There are some discussions regarding merging with the UK Demolition Association, but many concrete cutting members are worried that they may lose their identity if the two associations unite.

Lars Sandström and Anders Andersson from the Swedish Association said that the current situation is

good, with the economy still strong. Demand for housing is high as are prices in the larger cities, preventing people from investing. In Sweden, the demolition and concrete cutting associations merged about a year ago, with the relationship reportedly working well. The annual meeting was held right before bauma and a new board was elected. In Sweden there are about 400 concrete cutting firms and around 100 are members of the association.

Phillipe Wingeier from Switzerland said the Swiss market is performing well and there is plenty of work. The situation is similar to Sweden, with a lack of housing and high prices in the larger cities. Phillipe believes that the current markets situation will continue for another two to three years. The association now has about 110 members. Thomas Springer from the German Association reported that currently they have 730 members, comprising of around 700 contractors with the rest being suppliers. The economy in Germany is strong, but the construction industry struggles to find skilled labour. The German Association is purposefully working on increasing the number of members as there are many concrete cutting firms that still are not members.

Doug Walker reported on the US market situation, stating that there are plenty of jobs for the concrete cutting members of the CSDA. Today, the number of members of the association is increasing, with the CSDA having around 500 + members, which represents more or less 10% of the total number of concrete cutters in the US. CSDA is pushing safety and training within the association with the new tough OSHA rules concerning treatment of hazardous dust having strengthened CSDA members' position in the market. As a reply to the discussion about the importance of a work certificate for concrete cutters Doug said: "It should be obvious that you as professional concrete cutter need to have a certified licence to carry out the job. Even the pool cleaner in the US needs to be certified to fix your pool so why not a concrete cutter?"

Doug also touched upon the issue regarding US president Donald Trump, as his name came up more than once time during the market discussion. "You can say what you want about Trump but he is entertaining," said Doug. He ended his presentation with a twinkle in the eye saying: "Let's make concrete cutting great again!"

Norikazu Shibuya from the Japanese association said that the situation in the market is also positive in Japan. There are a lot of infrastructure projects going on, very much due to the preparations for the Olympic Games in 2020. The number of members of the Japanese Association has remained the same as in 2018, with a large number of small concrete cutting firms that are not members, with the current membership being mainly from large firms. Norikazu added that there are approximately 3,500 demolition companies in Japan, but there are no direct links between demolition and concrete cutting companies currently.

The supplier's delegates at the meeting jointly agreed that business over all is ok. "I would say that the market situation is over all good, and even very good in some areas. Of course the situation with no decision concerning Brexit worries. But we will support the United Kingdom the best we can. Also the Middle East area is currently a little bit uncertain," said Wolfgang Wiefeler, responsible for the construction division within Tyrolit. Martin Braun, president of Austrian company Braun Maschinenfabrik Austria agreed. "The situation is good right now, and I believe this situation will continue for at least two more years." Martin Gödickemeier, director of Diamond Market Developments at Hilti, commented: "For us, the German market is particularly good right now. Asia is doing well, and maybe it is only in some areas in the



Middle East the market is slightly hesitant." He also added that the line between demolition contractors and concrete cutting contractors is lessening, with more and more demolition contractors offering concrete cutting services in parallel to their core activities.

Letter from the German Association

José Blanco presented a rather critical letter to IACDS from the German Concrete Sawing & Drilling Association, with a number of detailed questions concerning how the national associations can benefit from being members of the umbrella organisation. Other particular questions concerns IACDS long term plans, what the IACDS wants to achieve, and what does the budget look like, and so forth. It was decided at the meeting to create clear answers once and for all which will be published in PDi Magazine and on the IACDS website. This will also stand as a basic template so other national members also can see the benefits of membership. José also informed that an IACDS 2019 Year Book is being produced containing some 80 pages of information about what is happening within the association.

It was also decided that next years annual meeting will take place in Italy, during the beginning of May, probably in the Genua area where a large bridge project

is taking place. The 2021 meeting will take place in the United Kingdom, and 2022 during the next bauma in Munich. José Blanco then presented the association's financial report for the previous year, and the budget for the current year. The meeting ended with elections with Michael Findeis being elected new president; Doug Walker and Julie White were elected vice presidents and Anders Andersson treasurer. The remaining elected members of the board consists of: Norikazu Shibuya, Shibuya Diamond Group; Martin Gödickemeier, Hilti; Roderick Braun, Braun Maschinenfabrik; Lars Sandström, BFB Sweden and José Blanco, secretary. The 2019 annual meeting concluded with a light lunch.



Cota Fuji, President of Concrete Coring Company in Japan. Winner of the 2019 IACDS Diamond Job Award.

Winner of the IACDS Job Category Diamond Award DEMOLITION OF EXITING SIDEWALL AT THE OSAKA METRO SYSTEM

Concrete Coring Company from Osaka in Japan was the winner of the IACDS Job Category Diamond Award 2019 for its advanced demolition of a sidewall in a very narrow and confined space in the Osaka metro system.

Concrete Coring Company, abbreviated CCC, was commissioned to demolish an exiting sidewall in the Osaka metro system in Japan. It proved to be a tricky job, and required the use of tailor made wire sawing equipment.

Exit for train inspections

The reason why the sidewall had to be taken down was to create an opening for a railroad exit in order enable the inspection of subway trains. A new inspection station had already been constructed, with CCC's task being to cut an opening for the connection to the subway tube so that new rails could be laid to the inspection station. One challenge was the very limited space and confined operating area. The distance from the old sidewall that was to be demolished to the newly built sidewall of the exit to the inspection station was just one 1m. CCC chose to take down the sidewall by using stitch drilling and a wire saw.

The cut concrete blocks had to be lifted down with a specially made hoist frame and a pulley on tracks. The sidewall was first of all stitch drilled to create channels for the diamond wire in order to start wire sawing. The



sidewall was then sawn in pieces, with each concrete block weighing approximately 2t. Some sensitive phases, such as taking down the train protection wall, and some stitch drilling for the diamond wire, were undertaken when the subway was closed at night, but most of the demolition work was undertaken while the subway was in operation.

Angled wire cutting

To haul down the uppermost concrete blocks following cutting was a difficult process. A special frame mounted hoist on a pulley on rails was designed, with the hoist lifted down with the block onto the frame, and then moved away on the pulley. Horizontal cuts to the most upper blocks were not possible as the blocks would hit the upper part of the new sidewall, thereby getting stuck. The solution chosen was to make an angled wire cut so the blocks could slide out from their position and be removed. In total, some 40m of concrete sidewall were taken down, with 21m of the stretch being very narrow, with only 1m between the new sidewall and the old sidewall. This delicate project started on 23 March 2012 and was completed on 22 May 2014.

News from the NDA:



The National Demolition Association's 'Demolition Rockies' began on 21 March with nearly 1,100 demolition professionals attending, along with 90 exhibitors at the Expo, whilst the 'Live DEMOLition' event attracted more than 680 attendees.

An NDA event always presents networking opportunities, and this year was no different. Attendees of the 'Live DEMOLition' event were able to test equipment from 23 companies, including balers, crushers, attachments, excavators, and skid steers. It also featured robotics and a competition where attendees could test their skills. Formal sessions began on Sunday shortly after Charlie Morecraft's moving and thought provoking keynote presentation on safety on the job.

The first panel, 'Utility plant decommissioning and demolition', was moderated by Jim Graham of Winter Environmental. He set the stage by stating that utility plant decommissioning and demolition is the single largest opportunity in the industry for demolition contractors. Panellists Ronnie Goodman of Duke Energy, Greg Tinin of Entergy, Dennis Dunning of Exelon, Jeff Loewe of NiSource, and Mark Schwartz of Southern Company answered a series of questions.

Later in the day, Denis McGarel of Brandenburg moderated, 'Managing demolition projects: perspectives from the owners', consultants' panel. Tim Barker of AE-

COM, David Braungardt and Keith Kotinko of Wood Plc, Bob Patulio of OBG/Ramboll, and Blake Svendsen of ERM discussed their companies' risk metrics to screen and select demolition subcontractors, preferred contracting methods, and lessons learned. "Our focus is on taking the right samples and getting the owners to understand that they need to spend some money on difficult areas; e.g., stacks on power plants and boilers," Braungardt said. "We're not going to be able to find every square foot of asbestos in the building, but we try."

On Monday, Michelle L. Clark and Betina Johnson of the Army Corps of Engineers presented, 'Doing business with the USACE'. They shared the breadth and depth of work the U.S. government is looking to hire out per region, as well as the criteria for winning those bids. The last major presentation of the convention was led by Dr. Mahesh Bailakanavar of Thornton Tomasetti. He walked attendees through the amazing case study of the Georgia Dome implosion his company engineered.

This year's 'Fast and Furious' presentations were well attended and lively, especially 'Demolition Jeop-

'ROCKIN IN THE ROCKIES'



ard', with Drew Lammers. Those who took a seat in the 'Education Station' at 'Destination NDA' received a scrap market update, information on what's new at the NDA, insight on job cost tracking, and details on different types of insurance companies should consider.

The 2019 event capped off with the annual NDA awards banquet where 'Lifetime Achievement Award' winner Leonard Cherry was honoured, as were the 2019 scholarship award and 'Excellence in Demolition' winners. NDA also inducted the first six people into its 'Hall of Fame': John T. Adamo, Sr.; John T. Adamo, Jr.; Mike Casbon; Denise M. Danneels; Robert Klotzbach; and Jerry Myrick.

NDA elects new president

Christopher Godek of New England Yankee Construction, LLC, in Milford, Conn., was elected as NDA president for 2019-2021, with Godek previously having served as vice president of the association. In 2019, NDA finalised a strategic plan that will be influential in determining the direction of Godek's presidency. The

plan focuses on attracting the next generation of talent; promotion of the demolition profession; proactive government advocacy for NDA members; and using data to inform NDA's vision, mission, and goals.

"Strategic alliances will strengthen our industry and increase our ability to interact positively with these agencies," Godek said. "We recently had the opportunity to meet in Washington, DC with OSHA and the Environmental Protection Agency. These agencies have extended their hand to us, and are looking for feedback from the NDA to promote a greater understanding of our respective positions when it comes to the demolition process. I commend them for their forward thinking, and thank them for their help in further educating and promoting our membership."

Education will be another high priority as NDA expands the 'Foundations of demolition training series', and looks to add more safety resources for members. Offering courses in estimating, project management, job cost tracking, and risk management will help demolition companies prioritize education and deliver stronger de-

molition managers to the workforce. Another focus will be communicating what demolition professionals do, how they are becoming more informed and using technology to transform their practices, how they are growing as a profession and differentiating themselves in the industry, as well as how NDA is supporting these efforts.

"Part of our strategic plan is a stronger, directed and aggressive marketing plan," stated Godek. "This coincides with my belief that we need to make sure our customers know who we are, that they know NDA members are the best in class contractors, and that our customers become informed and make the best decisions when selecting their next demolition contractor. Our focus on making sure our members are educated and aware of governmental changes, as well as industry technology is paramount. The customers, associates, consultants, and stakeholders of our member contractors can sleep soundly at night, knowing they are contracting with the best."

Full details of the NDA scholarship awards and 'Excellence in demolition awards' winners can be obtained from the NDA.



EDA welcomes IADC as a new member

The European Demolition Association has increased its presence in Europe with the addition of a new organisation: the Irish Association of Demolition Contractors.

The Irish Association of Demolition Contractors (IADC) is a constituent association of the Construction Industry Federation (CIF). IADC was formed in 1983, and is a national employer body representing companies in the demolition sector. The aim of the association is to promote contractors and raise standards in demolition through training and other initiatives. Association representatives sit on CIF Health and Safety, Construction and Demolition Waste subcommittees.

Through the CIF, representatives lobby government to drive change, and influence legislation and policies which effect specialist contractors. CIF also provides a range of

professional services and assists its members through support on safety, health and welfare, industrial relations, tendering and contractual matters and provides a range of training programmes to ensure members are skilled in their area of construction management.

The European Demolition Association (EDA) was founded in 1978 and is the European platform for national demolition associations, demolition contractors and suppliers. Every year EDA organises activities for the European demolition industry, with the most important being its annual convention, a meeting that includes presentations about key topics and optional leisure activities.



Winner of the IACDS Diamond Award Product Category 2019:

Braun bridge wire saw solution for a Russian nuclear plant

Braun Maschinenfabrik received the IACDS Product Category Diamond Award for its movable and dismantable bridge wire saw for the dismantling of six heat exchangers for Rosatom, the world's largest nuclear company plant in Novovoronezh.

The Product Award category was given for the first time this year with Braun named the winner for its bridge wire saw solution. Braun was commissioned to design a movable bridge wire saw to dismantle six steam generators/heat exchangers at the Novovoronezh nuclear power plant located in south east Russia in the province of Voronezh for Rosatom, the largest nuclear company in the world. The planning of the movable bridge wire saw, with integrated gantry, began in 2017. Construction of the system took place from August to November 2018, with the first assembly and commissioning taking place at the end of November at Braun's facility in Vöcklabruck, Austria.

A big challenge

The project faced a variety of difficult challenges, as the six heat exchangers were located in individual chambers, which could only be entered through a 'normal' sized door. Use of a crane for the assembling of the bridge wire saw, and the removal of the cut pieces of the exchangers was not possible, with the heat exchangers having bundles of tubes carrying radioactive water. Consequently, the tubes were radioactively contaminated, making wire sawing (as well as for other reasons) not being the optimal method for dismantling the heat exchangers. As the wire saws would carry away any contamination, Braun had to completely rethink the concept of a usual bridge wire saw.

The first problem was solved by means of using modular construction. The key to this was a grid construction made of aluminium, so that the entire system could be disassembled into small parts (not heavier than 40kg and no longer than 2.5m) and manually transported. Furthermore, a gantry crane was integrated in the system, being necessary for the removal of sawn parts. Since the pipes were internally contaminated with radioactivity, the system had to be largely automated and remotely controlled via cameras. In addition,

the bridge wire saw was combined with a patented Braun cold cutting saw. The saw blade creates larger chips and is covered by a dust extraction hood, solving the problems with the contamination.

The patented Braun cold cutting saw is x10 more efficient when cutting steel than a diamond wire saw. Therefore, when dismantling the heat exchangers, primarily the cold cutting saw was used. Only in the case when the diameter of the saw blade was too small to cut through certain components would wire sawing be necessary.

A unique movable bridge wire saw

The result of the job was a unique, mobile, movable bridge wire saw that, with a height of 10.5m and a width of 6.5m, is able to dismantle large objects. The combination of cold cutting (with carbide or diamond saw blades), cut off grinding (the Braun cold cutting saw can even be equipped with a cut off wheel) and wire sawing, makes it possible to dismantle any materials very effectively and efficiently. This meant that everything that came 'under the bridge' could be sawed and dismantled. In general, the Braun bridge wire saw is universally applicable and could, for example, also be used in general construction applications. Due to its modular construction method, it is possible to adjust the bridge wire saw to objects of different sizes.

Braun Wallshaver



The BRAUN Wall Shaver is a mobile system to eliminate surfaces from walls, floors or ceilings (1 – 10 mm per processing step). It can be used to remove coatings, layers of contaminated material, materials like asbestos or PCB, paint etc. The BRAUN Wall Shaver can also be used on the BRAUN Bridge Saw that recently won the IACDS Diamond Product Award.

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Braun Maschinenfabrik president Martin Braun receiving the IACDS Diamond Product Award from Julie White.

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Second time is a charm in St. Petersburg, Florida for CSDA

For the second time in five years, CSDA professionals from around the world converged in St. Petersburg, Florida for the association's annual convention & tech fair, setting records for the second consecutive year.

The association's event, held 13 to 15 March at the historic Renaissance Vinoy resort in downtown St. Petersburg, was attended by a record breaking number of attendees. It was the largest group to come together for a CSDA convention outside of Hawaii in 10 years. Attendance was up 15% over the last mainland U.S. convention, the 2016 event in Palm Desert, California. Among the attendees were 19 new members and first time attendees, as well as members from the U.K., Germany and Canada. Many attendees commented on the importance of taking part in the face to face meetings the convention facilitated. "Great time with some very important people in the field. Cannot stress enough the importance of these meetings for contractors and manufacturers alike! We all benefit from these gatherings," said Bruno Silla, vice chair of the GPR imaging committee.

The Convention agenda included business and technical sessions, as well as presentations covering a range of topics. Among these were managing workers' compensation claims, expanding your company's digital marketing footprint, post incident drug testing, the benefits of hiring military veterans and selling your company to specifiers. Two roundtables covered practices for hiring and managing millennials and trends in the GPR industry. Aside from the business sessions, some networking opportunities and social events were available for attendees.

The CSDA tech fair was again part of the convention agenda. 25 manufacturers and affiliates exhibited at the event, drawing a crowd, and allowing exhibitors to show off their new products and technologies. Attendees took the opportunity to talk one on one with vendors. Next year, the CSDA convention & tech fair heads west to Carlsbad, California at the Omni La Costa Resort & Golf Club, 10 to 14 March 2020. This beautiful resort is family friendly and boasts a golf course and a variety of activities. Registration will open in the fall.



CSDA elects 2019 officers and board of directors

The Concrete Sawing & Drilling Association (CSDA) has announced new officers and board members, who were elected at the 47th annual CSDA convention & tech fair, held 11 to 15 March 2019 in St. Petersburg, Florida.

The newly elected officers are Matthew Finnigan, president, National Concrete Cutting, Milton, Washington; vice president Mike Orzechowski, DITEQ Corp., Lenexa, Kansas and Kellie Vazquez, Holes Incorporated, Houston, Texas, who will also serve as secretary / treasurer. Jack Sondergard, Central Concrete Cutting, Edgar, Wisconsin will serve as 'past president' and Patrick O'Brien continues as executive director.

Six Board members, whose terms expire in 2021, were also elected. They are Ty Conner, Austin Enterprise, Bakersfield, California; Dan Dennison, Diamond Tools Technology, Indianapolis, Indiana; Mark DeSchepper, Echo GPR, Paola, Kansas; Bruce Ferrell, PROSOCO, Lawrence, Kansas; Jami Harmon, GSSI,

Nashua, New Hampshire and Greg Lipscomb, Diamond Products, Elyria, Ohio.

Returning for the second year of their term on the board are Peter Bigwood, Brokk, Monroe, Washington; Scott Brown, ICS Blount, Portland, Oregon; Bill Fisher, National Research Company, Novi, Michigan; Rick Glidewell, Hilti, Plano, Texas; Bennett Jones, Advanced Concrete Sawing, St. Paul, Minnesota and Tim Terrell, Husqvarna Construction Products, Olathe, Kansas.

The remainder of the CSDA 2019 board and committee meeting schedule is as follows: 12 to 13 June, Renaissance Reno Downtown, Reno, Nevada; 5 to 6 September Hyatt Regency Columbus, Columbus, Ohio and 4 to 5 December, Le Meridien New Orleans, New Orleans, Louisiana.



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