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Special Feature TAKING A LOOK AT WHAT'S NEW IN DUST CONTROL AND DISINFECTION

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Words from the IACDS President

The effects of the recession will be delayed for concrete cutters but we will manage it

It's been a few months since Covid-19 started playing havoc with our lives. It has literally turned everything upside down, causing us to endure limitations in our personal dealings with one another as well as changes to our business lives. Perhaps in Europe we have already passed the worst phase of the pandemic with the total lock-down being eased and things are starting to look up again. After all, we can travel again, at least within Europe, restaurants and hotels have reopened and holidays are already possible again, albeit with restrictions. But the first economic figures have already shown that the economy is facing a severe recession.

I'm telling you this is because we have so far hardly felt the effects of the pandemic and the associated recession in construction and/or concrete drilling and sawing. It is true that mouth and nose protection must be worn on construction sites and disinfectants used, with appoint-



Michael Findeis, President of IACDS

ments and meetings being held mostly outdoors. But I can tell you that our working world has hardly changed compared to the time before Covid-19. We work almost the same number of hours, process the same incoming orders by telephone and offers are made. Effectively, everything is almost like it was before the pandemic. That however is the most positive thing to say about the situation.

There are already the first signs that this recession will hit us with a time delay as we are experiencing fewer requests from within the industry. The motor that drives the entire economy has stuttered considerably and we do not know when projects that were planned will be carried out, if at all. From experience, I would say that this recession will hit us with about a year's delay. But what does that

mean for us? This means that we have to use the time to prepare ourselves for it. And do you know what? Because we are the hottest branch (of the industry) I know we will manage it!

VACUWORX OFFERS FASTER AND SAFER WAY TO HANDLE PRECAST, PRE-STRESSED CONCRETE

When an industry leading precast company wanted a faster, safer way to handle precast, pre-stressed double tee beams, Vacuworx provided a smart solution. The new CC-TT computer controlled 'double tee' vacuum lifting system offers an alternative to using anchors and chains and eliminates the need for personnel to climb on stacks or ladders to set dunnage.

Vacuum lifting technology has been a preferred method of material handling in the pipeline and construction industries for over 20 years. The new CC-TT is one of the largest systems engineered by the company, boasting a lift capacity of 35t. Based on the time proven design of the company's popular RC Series, the CC-TT is designed with a multifunction

computer operated remote control system with touch screen which provides real time operation and diagnostic information including vacuum pressure (reservoir and pads), fuel level, battery status and more. Closed circuit cameras allow unobstructed views to enable precise pad placement. Variable pad positions ensure even lifting and avoidance of key stress points. The CC-TT system is powered by a diesel engine and is designed to work with mobile or stationary gantry cranes. Pads are specially engineered to accommodate the weight and size of double tee beams. Each pad is equipped with a sensor to confirm that the load is engaged. The system can also be modified to handle other precast structures or steel.

www.vacuworx.com



PDi business

bauma CTT Russia has new date set

The outbreak of the Coronavirus (Covid-19) has strongly impacted on developments in Russia. Following the directives of the city and regional authorities of Moscow to prevent and control the virus from spreading, Messe München was compelled to postpone bauma CTT Russia, which was planned to take place in May. A new date has been set now, with the trade fair set to be held from 25-28 May 2021 at Crocus Expo in Moscow.

The measures taken by the Moscow City Government against the spread of Coronavirus applied for the time being until 10 April. "The postponement is the logical consequence," explains Stefan Rummel, managing director of Messe München. "We are thus giving our customers, exhibitors, visitors and partners of bauma CTT Russia planning security. Their health is our top priority. We are now looking ahead confidently and working with our national and

international partners from the construction industry to organise a successful bauma CTT Russia 2021 "

Sergey Alexandrov, managing director of Messe München Rus, further explains: "We are taking the spread of the Coronavirus very seriously and have been monitoring the local situation closely. Based on current developments, we are confident that by setting the new date we will create good conditions for staging bauma CTT Russia." After in-depth communication with the exhibitors, Sergey Alexandrov states, "Despite the current uncertainties, the importance of bauma CTT Russia remains intact. There is still a great demand for participating and we have the commitment of most of our exhibitors to follow our decision."

Visitors can still register online for bauma CTT Russia and already purchased tickets remain valid



'Licensed to sell': Allu hold most successful global dealer meeting ever

Allu recently held its most well attended and successful meeting of its global dealer network. Under the theme of 'Licensed to sell', close to 100 representatives from over 30 dealerships came to Finland for what proved to be a fantastic occasion.

In recent years Allu has placed a great deal of emphasis in growing its highly professional dealer and distributor network. Throughout Europe, Latin America, Africa, the US and increasingly SE Asia, the network has continued to grow enabling customers throughout the world to readily benefit from the unique attributes of the Allu Transformer and Processor ranges.

In order to provide customers and end users with the very latest developments in Allu's ever increasing solutions portfolio, close to 100 representatives from over 30 dealers came to Finland. During the two day meeting, themed 'Licensed to sell', the dealers enjoyed a series of events aimed at providing

them with the latest developments and application thinking concerning the Allu product lines. Of special interest to the dealers was a demonstration day. Here some of the latest Allu Transformers equipped with the new TS Blades were put through their paces in front of a highly demanding audience.

In addition to seminars, demonstrations, workshops and a highly informative walk-through of the production process at the Pennala factory, Allu product and service experts were also on-hand to provide advice in order to help the dealers assist their customers maximize their investments. "The dealer conference and meeting was the perfect occasion for us to meet the Allu people at the sharp end," said Allu vice president of sales Jeroen Hinnen. "I thought it was an excellent occasion, enabling us at Allu to not only help our partners, but also to listen to what they and their customers want from Allu."

www.allu.net









PDi business

PDi is launching 'DemolitionToday'

It is a changing world we are living in; or should I say everything is new? The Covid-19 pandemic that has turned the world upside down is something completely new that we all have to deal with. Another thing, long time before the coronavirus appeared, was the transformation of the media industry, slowly moving from printed material to virtual and digital platforms. I have been working in the press since the early 1990s and I have seen changes that were hard to imagine before the advent of the personal computer and the internet appeared.

Firstly, the entire printing industry changed and almost a whole profession disappeared, the graphic artist. Thanks to new hardware and the software mounting of printing films they were no longer required. The separation of colours (which forms a major part of the printing process) is now made automatically on computers with the artwork being applied directly to the printing plate. The constant development of digital (email, internet etc.) communication has also extracted a heavy toll, with letter writing on paper, for instance, being something that anyone is hardly doing anymore. Social media channels such as Facebook, Instagram, Twitter, LinkedIn, YouTube, etc. are now where people meet and interact. Even if these channels were to disappear, they would be replaced with other types of virtual meeting points on the World Wide Web.

Therefore PDi has taken a bold decision to increase our presence digitally and on the internet by launching a news channel called, Demolition Today. The full details concerning the channel have not been completely decided upon yet, but we will broadcast as often as possible, hopefully once each week. Each episode of DemolitionToday will be between 5min to 10min long, mixing short news exerts from all over the world. The focus will be similar to PDi, covering all sorts of demolition, concrete sawing and drilling, recycling, remediation, concrete floor grinding and polishing applications, as well as related products for these sectors. There will also be short commercial clips in between the news messages.

The idea feels quite thrilling and is something completely new to us. However, we have very good access to industry news in these sectors so that will not present a problem. We are now actively encouraging contractors and manufacturers to send us news spots and footage that we can share with our viewers. It is possible that in the future we also will broadcast longer feature videos such as documentaries concerning special projects within in the covered industries.

Even though our broadcasting has not really started yet we recommend you to go to YouTube and search for DemolitionToday and start subscribing. After the summer, we are also set to launch www.demolitionToday.tv where viewers can more easily watch

each episode of DemolitionToday.

Finally, I would like to wish everybody in the Northern hemisphere a nice summer and a great vacation, whilst to our readers below the equator, all the best in business. I hope you all enjoy reading issue 3-2020 of PDi Magazine.

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

Doosan Bobcat appoints new district manager for Poland

Doosan Bobcat EMEA has announced a long planned business expansion in Poland, with the appointment of Adrian Winnicki as district manager. In this new role, Adrian will cover business development for the Bobcat brand in Poland. taking over from David Hubik, who will continue to lead business efforts in other CEE countries. Adrian provides a wide range of expertise in the construction and machinery business. With over 10 years of experience, including various positions within the Doosan Group, he is a significant addition to the Bobcat management team as the company aims to develop its business in Poland.

Adrian will be based in Wroclaw, supporting key customers and Bobcat dealers. Among his main tasks will be further development of the dealer network in Poland to cover all key business opportunities. This includes further increasing market share in areas such as Bobcat telescopic handlers and an increased



focus on some specific markets, such as the highly competitive agriculture market. Adrian gained most of his experience during his career at Doosan Infracore, where he was responsible for product management and sales of articulated dump trucks. He started as a test engineer in the R&D department in Norway, before moving on to various management positions finally covering the whole of the Europe region.



Coronavirus crisis leads to decline in Hilti Group sales

The Hilti Group has reported a significant downturn in business after the first four months of 2020 as result of the economic impact of the Covid-19 pandemic. Total sales decreased by 13.1% year on year to €1561M. In local currencies the decline was 8.2%.

After a good start to the year with mid-single-digit growth, Hilti experienced a sharp drop in business in north Asia in February due to the spread of the Coronavirus. From mid-March onwards, all markets around the world experienced a significant decline in sales. The sales downturn was less pronounced in countries where construction activities continued, such as Germany, Scandinavia and the USA. By contrast, business deteriorated significantly in countries such as France, Italy and Spain, where construction activity was stopped completely. An additional burden is the strong appreciation of the Swiss franc. The negative translation effect after the first four months amounts to roughly 5%. Developments in the respective business

regions reflect the challenging situation worldwide.

According to current estimates, the Hilti Group expects a loss in sales for the full year of approximately 10% in local currencies, and up to 15% in Swiss francs. This is based on the assumption that the second guarter will remain difficult and a gradual recovery will take place during the second half of the year. To counter the effects of the Coronavirus crisis and avoid structural adjustments, Hilti has implemented a broad package of temporary

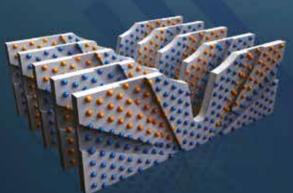
"The next few months will show whether this is sufficient or whether we will need to initiate a second stage of measures including structural adjustments. Only a few countries in north Asia, where business activities are slowly stabilising, provide cautious optimism. However, the Hilti Group's strategic orientation remains unchanged and we will continue to push ahead with important projects and make corresponding investments," explained Hilti Group CEO Christoph Loos.



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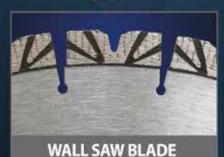




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Words from the EDA President

SAFETY FIRST

'Safety' seems to be one of the most repeated words lately, along with 'health'. In fact, we have almost replaced 'best regards' with 'stay safe' in our messages and emails during the last few months. For the demolition industry, safety has always been and will always be present in every project, every work day and every conversation as prevention is the key to any activities we carry out.

White overalls, face protection and respiratory masks are not new for our industry due to the special measures and procedures to protect not only workers from hazardous substances (such as silica dust, asbestos, PCB, lead, radioactive materials etc.), but also the environment and the public at large. For this reason, from the beginning of the pandemic scenario created by the Covid-19 virus, the EDA's motto has been 'Safety First', in order to protect the health of our workers and their families, and following the advice of public authorities, to prevent the spread of the disease

The EDA and its national associations have been encouraging the construction industry to follow all the recommendations and implement the protective measures proposed by health organisations, most specifically those coming from national or regional authorities. The association is also encouraging the European Commission and the EU member states to provide direct support to employers in order to allow for a future of our sector and the construction industry as a whole.

The evolution of the pandemic and the current situation in each member state is different (in many countries, construction works have been reopened whilst always adopting strict safety measures). What we all have in common however is that it is necessary for all the stakeholders in the industry to be open to negotiations to reschedule projects, without endangering the health of the workers and of society in general.

The picture in the demolition sector is confusing and varies from country to country, but we want to do our bit to shed light on an uncertain future. EDA is preparing a specific report about the

impact of the Covid-19 on demolition companies to show an overview at European level and country by country of how the pandemic has affected sites and companies.

It is my belief however that from bad situations such as we are experiencing, it is possible (and very positive) to get something good from them. During a crisis it is essential to come together to face the current difficulties and those that may come. For this reason, I am especially proud of the EDA family as I know that by joining forces, we can help each other.

In the past two months of confinement that almost all of us have experienced, the EDA Board of Directors has held several videoconferences; in the same way we have held meetings with our colleagues and friends from NDA (USA). The exchange of information and experiences, in short, cooperation, is one of the pillars on which we rely on to get out of this situation in better conditions than we entered.

Stay safe!

About EDA

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

info@europeandemolition.org www.europeandemolition.org



Francisco Cobo, President of EDA, European Demolition Association



PDi business



The Turkish company was founded on 1 May 1978 in Ankara by mechanical engineer Hasan Basri Bozkurt, beginning production of attachments for agricultural tractors. It now produces backhoe loaders, hydraulic excavators, wheel loaders, motor graders and soil compactors at its six production facilities, four in Ankara, one in Izmir and one in Thailand. The company has also expanded its international network through offices in Spain, Russia and Japan and has authorised dealers in more than 80 countries.

Company general manager Ahmet Bozkurt, said of the 42nd anniversary: "We

are a strong family with our team of approximately 2,000 people, our dealers, machine owners and operators. With the belief that determination is the key to success, we continue to manufacture construction machinery without changing our business focus for 42 years with the excitement of the first day. We pursue our activities in line with our corporate values that have been our compass. On this occasion, we commemorate Hasan Basri Bozkurt, the founder of our company, with respect and gratitude and continue to work on the path he had opened and guided."



Wacker Neuson SE reports Q1 revenue fall due to Covid-19 pandemic

Wacker Neuson Group reported revenue of €410.8M for the first quarter of 2020. This corresponds to a drop of 5.6% compared to Q1/19 €435.4M. "Following a successful start to 2020, business contracted sharply towards the end of the first quarter as a result of the Coronavirus pandemic. Widespread uncertainty is negatively impacting investment activity among our customers and existing orders are being postponed to an extent," explains Martin Lehner, CEO of the Wacker Neuson Group.

Given that it is not possible at present to predict the further impact of the Covid-19 pandemic, the Wacker Neuson Executive Board withdrew its guidance for fiscal 2020 on April 21. "It is currently not feasible to fore-

see how the pandemic will affect customer demand moving forward, the robustness of global supply chains or our Group's production output. Looking ahead to the coming months, however, we expect the economic effects to have a much bigger impact on our business than in the first quarter," explains Martin Lehner

To respond to the current level of demand, the Group has adopted various short time work models. The Executive Board has also implemented numerous initiatives to cut costs and secure liquidity. These include re-evaluation of all planned investments, as well as a joint decision taken by the Executive Board and the Supervisory Board to propose suspending the dividend at the AGM

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EVENT CALENDAR

SAMOTER 2020

October 21-25, 2020 Verona, Italy

www.samater.it

BAUMA CONEXPO INDIA

November 3-<u>6, 20</u>20 Gurugram, New <u>Delhi</u>,

www.bcindia.com

CONCRETE SHOW BRAZIL

Nov 24-26, 2020 São Paulo Expo, São Paul, Brazil www.concreteshow.com.br

BAUMA CHINA 2020

Nov 24-27, 2020 Shanghai, China

www.baumachina.com

WORLD OF CONCRETE 2021

January, 18-22, 20201 Las Vegas Convention Center Las Vegas, USA

www.worldofconcrete.com

THE ARA SHOW 2021

Feb 22-24, 2021 New Orleans, Louisiana

www.arashow.org

NDA ANNUAL CONVENTION 2021

March, 4-7, 2021 New Orleans, Louisiana Demolitionassociation.com

FACHTAGUNG ABBRUCH 2021

March. 5. 2021 Berlin, Germany www.deutscher-abbruchverband.de

CSDA ANNUAL CONVENTION & TECH FAIR

March. 4-6. 2021 Fairmont Hamilton Proncess Resort, Hamilton, Bermuda

www.csda.ora

BEBOSA 2021

April. 15-17. 2021 Willingen, Hochsauerland,

www.hehasa.com

DEMCON 2021

September, 9-10, 2021 InfraCity, Stockholm, Sweden

www.demcon.se

Peter Grönholm appointed managing director of Allu Finland

B.Sc. Peter Grönholm has been appointed Managing Director of ALLU Finland. Peter Grönholm has extensive experience in sales and marketing as well as supply chain management and as a managing director in international organizations in Finland and abroad. He is currently the Vice President, Supply Chain & Operations in Germany in Cavotec Group, which is a supplier of industrial equipment. He will join ALLU by July 2020.

Peter Grönholm's background is international. His positions over the years have been in the US, Norway and Germany and he has been responsible for business in several other countries as well, including North America and the Nordic countries.

"ALLU's strategy is for profitable growth, earnings and internationalization. Peter is a result and solution-focused, well-thoughtoff team player, in addition to which he has achieved great results with strong leadership skills. Peter's experience in international business also played a significant role in the selection," says Markku Jonninen, Chairman of the Board of ALLU Group.



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



Allu to invest in the future with formation of new R&D company

ALLU Group has announced the creation of a new company that has been formed to purpose develop future attachment technology, solutions and equipment.

On 1 April 2020, a new ALLU Group company became operational to develop new equipment, products and solutions through the use of the latest innovative technology. 'Allu Innovation and Research Center Oy' will operate as a separate corporate entity alongside the other ALLU Group companies, but independent to the existing Allu manufacturing, production and general operational structure

Allu Innovation and Research Center Oy will form the cornerstone of Allu's ongoing R&D program providing cutting edge solutions, aimed to make customers more efficient, productive, environmentally friendly and profitable. It is envisaged that following successful testing and fine tuning, applicable new innovations will be incorporated into new Allu products which will subsequently be introduced to market.

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

Impact of Covid-19 forces rescheduling of more than 50% of European demolition projects

Given the social and economic impact of the Coronavirus lockdown on the European demolition industry, the EDA Board of Directors has been meeting regularly to monitor the situation, which has led to the production of a report on the impact of the virus on the demolition industry.

The European Demolition Association, EDA, has prepared a specific report to analyse the impact of Covid-19 on European demolition companies. This report was made with the participation of companies from 18 European countries through an online survey, made from 6 to 15 May 2020. The report includes graphics with the information at European level and country by country, as the situation differed substantially in each part of Europe, even week by week.

The impact of Covid-19 has resulted in 63% of demolition projects being rescheduled in Europe, leaving only 9% of planned activity intact. Between 5% and 20% of projects have been cancelled, with this figure representing 28% of the total number of current projects reported by the contributing companies. Particularly noteworthy is Denmark (where 56% of the projects have not been affected at all) and Finland (where 100% of the projects have been rescheduled but remain in force).

In general, the demolition industry temporarily stopped activity for some weeks, although there are several countries where activity has not stopped, such as Denmark, Finland, Sweden and the Netherlands, A significant percentage of companies from France and Russia have been forced to close for between one and more than two weeks As of the first half of May, nearly half of European demolition sites are currently open, suggesting that the industry is continuing or has returned to a kind of normality. The only case where the proportion of open and closed sites currently is similar is in Greece.

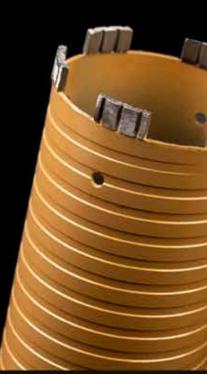
After getting through March and April, when several European countries had problems with the supply of personal protective equipment (PPE), nearly two thirds of survey respondents now said they have sufficient material. Countries such as Denmark. Sweden. The Netherlands or Serbia showed hardly any incidence regarding PPEs.

When asked about the reduction of staff, a total of 64% of European demolition companies have been forced to reduce their staff, although 27% stated that this was a temporary measure. The economic incentives that national governments have implemented to mitigate the consequences of the crisis are particularly noticeable in Ireland, France and Finland, where a significant percentage have reduced their staff only temporarily. The Netherlands, Denmark and Italy are the countries least affected by layoffs. The full EDA report is freely available on line at: www. europeandemolition.org/industryreport



















500 PEOPLE ONLINE

There are plenty of good examples on how the demolition industry finds a way to communicate despite the coronavirus pandemic. In India for example, the Kerala Highway Research Institute organised a webinar where Mohan Ramanathan, president of ACT - Advance Construction Technologies - in Chennai, India, gave a presentation on the different techniques that can be used for demolition, concrete cutting and recycling. Almost 500 people joined the 'Go To Meeting' event to hear Mohan Ramanathan discuss these subjects for about an hour. The presentation ended with a questions and answers session where the participants could ask questions directly to both Ramanathan and Jan Hermansson from PDi Magazine.

During his presentation, Mohan Ramanathan pointed out the value of starting to use safe and controlled methods in order to save lives and minimise injuries, pointing out that common modern techniques are also far more efficient. A major challenge the Indian demolition industry is facing is that almost 90% of demolition work is still carried out manually in India. "This fact must be changed by informing about existing safe and more efficient methods for demolition," said Mohan Ramanathan.

Ramanathan is the founder of the Indian Demolition Association and is together with the other association members working hard to promote controlled and safe demolition techniques in India.

PDi's editor in chief. Jan Hermansson, was highly impressed that so many participated in the webinar and continued listening and asking question until the very end. It is a good sign of the changes being made in the demolition industry in India.

www.indiandemolition.org



Liebherr USA, Co. has formally moved in to a newly expanded campus located in Newport News. VA which houses around 500 office and support staff. The move, conducted with enhanced cleaning and social distancing measures in place to ensure the health and safety of the employees, contractors, and the local community, caps a journey that began in July 2018, when members of the Liebherr family, company executives and Newport News city officials broke ground for the project. "Besides moving into a new facility which is a highlight for our employees who contribute immensely to our success in the US, what stands out for me the most, is the message that this €53.5M investment sends to our customers," said Dr Torben Reher, managing director, Liebherr USA, Co. "Apart from investing in research and design for cutting edge technology, we have a long term focus while looking at our business and the relationships with our customers. Thus, we want to grow together and our new site is the evidence for this approach."

Steinexpo now to be held in 2021

On 15 April 2020, the German Federal Government and the heads of the Federal States declared that major events play an enormous role in the spread of the coronavirus infection. As a result, such events were banned at least until 31 August 2020. This means that the Steinexpo show, planned to be held from 26 to 29th August 2020 in Nieder-Ofleiden, Hessen, will now be postponed until 2021.

It is said that hope dies last, and with regard to Steinexpo 2020, it remained a hope that the show would still be held. This is due to it being up to the individual states to decide on specific regulations and determine the size and under what criteria events could

be held. However, the authorities in Hesse decided that the next Steinexpo, to be held in Europe's largest basalt quarry, cannot now take place as planned at the end of August 2020. This means that the 11th quarrying equipment demonstration show will have to be postponed. Since a later date this year would entail renewed imponderables, the organisers, in agreement with exhibitors and the associations involved as the sponsors of the trade fair, decided upon a postponement until next year. The new date, as well as further information, will be announced as soon as possible via the usual channels

www.steinexpo.eu

'Best Managed Companies' recognition

Steelwrist, the rapidly growing manufacturer of tiltrotators and quick couplers, has received the Swedish Best Managed Companies recognition which is sponsored by Deloitte in cooperation with Nasdag. This is a quality award that acknowledges the overall success of private Swedish companies based on strategic direction, ability to execute, corporate culture and financial performance.

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

'Best Managed Companies' was established in Canada in 1993 and has since then been introduced in more than 20 countries around the world. Sweden's Best Managed Companies was launched in 2018 by Deloitte in cooperation with Nasdaq. This is the second year of the award, with an independent jury selecting the 18 companies which received this years award. "Future growth is built upon robust internal processes. These companies have a clear vision and a forward-leaning approach. Such ways of working are of course even more important in turbulent times," says Therese Kiellberg, partner at Deloitte and responsible for Best Managed Companies in Sweden.

"This year companies demonstrated exceptional leadership and commitment to drive profitable growth. Their success is a result of taking a deliberate approach to build strong teams and investing in the future development of their talent," says Håkan Sjögren, independent jury member, and managing director responsible for Nasdaq listings in Stockholm.



Due to the Covid-19 pandemic, the organisers of Demcon have regretably decided to postpone the 2020 show with a new date being set of the 9 to 10 September, 2021.

For a long time hopes were rising that the Scandinavian demolition exhibition Demcon would still be held in Stockholm as planned on the 24 to 25 September. But the development of the coronavirus situation has not improved as much as the organisers where hoping for. As preparation work for the show is quite time consuming both for the organisers and the exhibitors, the resulting time frame became too short

to make the staging of the show a realistic proposition

DEMCON 2020 POSTPONED

Another difficulty encountered is that currently restrictions in Sweden only allow a maximum of 50 people to gather in any social event. It is not seen as likely that these restrictions will be lifted to allow groups of between 1000 and 2000 people, and not until September this year at the earliest. "It is very sad that we now how to postpone Demcon, but what can we do? It was also planned that IACDS would hold its annual meeting and 25th anniversary in conjunction with Demcon. The Swedish demolition and concrete cutting association would also hold their autumn meeting. That will not happen either," says Jan Hermansson, one of the organisers of the show.

Demcon transforms in to a virtual roadtrip

As an alternative to Demcon 2020, the organisers will arrange an online based presentation of new products that would have been launched at the show this year. The digital show is called, 'Demcon - Virtual Roadtrip 2020' with the idea being to bring a film team to each exhibitor that wants to attend.

"We will bring a complete film crew

and set up a studio. Each exhibitor will get a special video presentation. There will be a specific host for each session. The manufacturers and suppliers will be able to present and demonstrate their products. All video films will be broadcast in September and October this year. In direct conjunction to the video presention, each viewer will be able to ask question to the suppliers online through 'Google Meet'," says Jan Hermansson.

The agenda with online product presentations will be announced in PDi Magazine and on www.pdworld.com.

www.demcon.se





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New Allu Crusher and Transformer developments premiered at CONEXPO

Despite reduced attendance at this year's show, the launch of the new heavy duty range of Allu crushing attachments and the latest Transformer developments saw Allu's booth welcome many visitors at the CONEXPO/CONAGG show.

The global launch of the new Allu crusher series at the Las Vegas exhibition marked the world premiere of the first three crusher models. Designed for excavators in the 10 to 33 ton range, all have purpose developed features that ease their use and optimize performance, whilst providing easy maintenance in the field.

Jeroen Hinnen, vice president of sales for Allu Group says of Allu's latest development: "By bringing this new product line to market we will be able to provide customers with what they have been looking for. The Allu Transformer range offers unique productivity and efficiency benefits on soft rock and other materials, whilst the Allu Crusher range enables hard rock, and often troublesome demolition materials, to be effectively reduced."

Despite a reduction in numbers of visitors to the Las Vegas show, Allu reported that it was one of the most successful exhibition's the company has attended there. "Despite many people not being able to come to the show, there were large numbers of visitors to our stand," says Allu's global marketing manager, Marjut Lindroos.

We received a large number of enquiries for the new crusher series as well for our Transformers and Processors. Customers, whatever their application, seemed genuinely excited by our TS blades and the ability of our Processors to effectively stabilise ground. We would like to thank all our visitors for their interest and look forward to seeing them again soon!"

The Allu booth at CONEXPO/CONAGG was located at: Central Hall, stand C20326.



EPIROC ADDS TO CB 'CONCRETE BUSTER' RANGE

Epiroc has added the CB 4500 to its popular CB Concrete Buster range, with the new model being designed for carriers in the 40t to 55 tons weight class.

Due to their comparatively light weight, CB Concrete Busters are effective choices for use with high reach or long front carriers, specifically for applications with highly abrasive material and low level of visibility of the product in operation. They are also suitable where noise is an issue and they can be used in residential areas where hydraulic breakers are not permitted. As construction and demolition contractors worldwide have discovered, CB Concrete Busters with their wide jaw openings and high cracking forces, are ideal for demolishing thick foundation walls making light work of cracking girders and heavy concrete at extreme heights.

Designed with productivity in mind

CB Concrete Busters are equipped with two powerful hydraulic cylinders which deliver virtually continuous closing force for maximum productivity. The hydraulic cylinders are fully protected by piston rod guards, whilst

an integrated speed valve gives faster working cycles. Offering impressive cracking forces of up to 190t depending on the model, CB Concrete Busters are equipped with two independently moving jaws that eliminate displacement force, thus lowering stress levels. Cutting blades are both replaceable and reversible.

A productive feature on all CB Concrete Busters is 360° endless hydraulic rotation, which allows precise handling and optimal positioning. If the cutter grips the material at an oblique angle a built in pressure relief valve allows a 'self-acting' movement that brings the cutter jaw into the ideal position. This valve effectively protects both the carrier and the cutter from potentially damaging reaction forces.

A full range

The new CB 4500 model offers a crushing force of 130t at the jaw tip, with a jaw opening of 1,400mm. The complete CB range now comprises of seven models with service weights from 320kg to 7,400kg, for carriers weighing from 2t to 85t.



Terex Finlay expands mobile crusher line

Terex Finlay's new IC-Range of compact impact crushers have been specifically designed for quarrying, construction and demolition debris, reinforced concrete and asphalt recycling applications. "The addition of these four new models (IC-100, IC-100RS, IC-110 and IC-10RS) complements our existing range of mobile impact crushers and opens up new opportunities at the smaller machine sector of the market. Each of these models has been rigorously tested and proven in a diverse range of applications. The compact size, ease of transport, quick set up times and intuitive operation make each of these machines ideal for contract crushers, independent rental houses and small scale operators," said Alan Witherow, Terex Finlay, lead technical support and product manager.



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This year sees the introduction of many new products from dust control manufacturers; although this time some of these new developments aren't actually combatting dust. During the ongoing pandemic, the sector has found innovative ways to offer other solutions that can help save lives.

he new reality we are currently experiencing reminds of a Hollywood horror or sci fi movie come true. Covid-19 has become the proverbial 'black swan' that effectively shut down the global economy, closed the borders and sent entire nations into lockdown. Despite unprecedented measures undertaken by world governments to curb the spread of coronavirus, the death toll keeps climbing albeit now at a decreasing rate. There have however been some interest developments, notably from Italy which suffered initially very badly from the virus, to help combat its spread.

WLP and the NCA remediation system

WLP s.r.l., a dust control specialist based in Northern Italy, is doing its bit to combat the pandemic by offering a decontamination system that can considerably reduce the diffusion of the virus. With severe lockdown measures in place, only businesses that have been classified as 'essential' are allowed to continue operating in Italy (at the time this article was written). WLP, a trendsetter in dust and odour control technology, has been granted such a status, not least thanks to its NCA remediation system, which stands for 'No Contaminated Area'.

WLP began to design and build decontamination systems some four years ago, following a 6.2 Richter scale earthquake in central Italy on 24 August 2016. A great deal of livestock was killed by collapsing stables,

causing a real threat of an epidemic. The situation was quickly resolved at the time, but it did prompt the WLP engineering team to look into decontamination issues. Two years later the Italian manufacturer came up with the NCA solution. Designed to hinder the proliferation



of dangerous bacteria with the aid of non-toxic additives, a self-contained NCA system consists of an electric generator set, a large volume tank with decontamination solution and a spraying cannon or nebulizer. Thanks to the on board electronics and a radio controlled unit, the system can be operated in remote mode, which drastically reduces the risk of the operator being infected. Complete autonomy and the ability to treat large areas are further benefits of the WLP solution.

Due to the current coronavirus situation, WLP has not only remained fully operational throughout the crisis, but in fact, has increased production of decontamination systems. This has enabled the company to respond to the need for sanitising indoor environments such as offices, warehouses and manufacturing facilities by designing a brand new machine. Named 'ET' ('Extreme Treatment' and 'Extra Terrestrial' thanks to its somewhat outlandish design), this mobile system features a 70l tank with sanitising liquid, permitting an average run time of three hours. Also, the ET is equipped with a remote control unit, which allows users to operate it from a safe distance. As the coronavirus crisis worsens, demand for this machine is said to be growing exponentially worldwide. Within a space of just two weeks, WLP has supplied over 60 units to France, the UK, Malta, Egypt and Thailand.

www.wlpdust.com



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PDi special feature



'DisinfecTunnel' - the full body sanitizer from EmiControls

Another Italian manufacturer, EmiControls, based in Bolzano, has manufactured a new disinfection tunnel, reminiscent of the common airport body scanner. The user enters the tunnel and stops with outstretched arms. The disinfectant is sprayed through nozzles, forming a fine mist of water which is deposited on all surfaces in the tunnel including skin, clothing, bags or even smartphones. The disinfection process is completed in 15 seconds while the effect lasts up to 24h. The 'Ersa' disinfectant used is harmless for humans, which means no protective equipment is necessary when using it. The tunnel uses a high pressure system (70bar) and has been designed in such a way that only a small amount of water and disinfectant is required (0.551/min). The water is atomized into small droplets of between 1 and 30 microns. The tunnel is operated with drinking water and domestic electricity, and has a quick assembly time of 15min. The DisinfecTunnel can also be used to disinfect objects, being particularly suitable for use in public places, in front of hospitals, at work, in front of entrances and at events, to name but a few.

www.emicontrols.com

Disinfecting equipment from Savic Engineering

The government of Spain asked Belgium based Savic Engineering to use its industrial dust suppression and disinfecting equipment to help combat Covid-19. A few days were spent testing the machines on site, approving their use before being put to work. The equipment was deployed on a large scale and to great effect to thoroughly disinfect spaces destined for the care of Spanish coronavirus patients, with public areas receiving a similar treatment. Savic Engineering's Spanish dealer cooperated closely with the local authorities and the army. "Our 'Spraystream' machines can generate droplets of water mixed with disinfectant in a highly controlled fashion," says CEO Mirko Savic. "We then use a turbine system to spray this mixture onto surfaces and through the air. The machines are controlled remotely and are suitable for fully autonomous, vehicle mounted operation. This makes it possible to disinfect large areas quickly at the correct flow rate and dosage. Moreover, our system is set up in such a way that we can work very efficiently, without flooding the surroundings with water and with a minimum of workers. We have a large supply of



equipment available that is perfectly suited to these tasks with only a few modifications, either indoors or out."

www.savic-group.com

New low weight pre separator from Blastrac

For more conventional dust control equipment for use in demolition, Blastrac has launched a new pre separator, namely the BPS-LP-0020, which possesses both flexibility and low weight. It captures up to 95% of dust, measured with a 2m dust hose between the pre separator and the dust collector and is designed to work in combination with small Blastrac dust collectors. It is made from recyclable and lightweight plastic materials, weighing only 6.5kg. The separator is multifunctional due to its trolley system, which can be used stand alone or with a hook on system making it attachable to the BDC-122 and the BDC-133. The pre separator is equipped with a Longopac bagging system, as well as a





tube on the frame for tie wraps and scissors. The manually operated valve ensures that the full Longopac bag can be changed while the dust collector remains turned on, thereby reducing downtime. The turntable mounted on the trolley provides ergonomic advantage to easily turn the full Longopac bag and close it.

Blastrac has also launched a petrol powered dust collector, BDC-187PLP-UD, also equipped with a Longopac bagging system for 25kg bags. It is equipped with the 'Up & Down system' ('low' position for transportation and 'high' when in operation) which, according to Blastrac, makes it easy to transport from jobsite to jobsite. This dust collector can be used in combination with the BMP-335GHY scarifying machine and BMC-335GHY sawing machine. This means the operator does not need to bring a generator to the jobsite.

www.blastrac.com

Pentruder 252



PDi special feature





Schwamborn offers redesigned suction system for demanding jobs

Schwamborn believes that there are two challenges when milling and grinding floors, walls and ceilings: on the one hand, it is dangerous because of the amount of dust it produces, which therefore implies that fewer workers are willing to perform such jobs. On the other hand, there are numerous excuses in the industry to proceed without perfected dust reduction. With this dilemma as a starting point, Schwamborn has aimed at breaking new grounds. "As a result we can now present a completely redesigned suction system that is perfectly adapted to the requirements on the construction sites," says CEO Eckart Schwamborn. Schwamborn now offers a suitable suction system for particularly demanding requirements related to grinding and milling contaminated or environmentally harmful material. STS 130 and STS 260 are examples of H-certified models that meet such standards.

Last year, Schwamborn reworked its entire dust extraction line and improved the suction capacity for almost all models in the new STS line. As a consequence, the three stage filtering was improved, with the installing of HEPA 13 and HEPA 14 standard particle filters. Coarse particles are filtered first and then a polyester pre filter removes up to 99.9% of the dust. In the third stage, up to 99.995% of all dust particles on site are filtered by HEPA filters. "Our goal had to be the development of a system that was maximally closed, realistic and easy to implement on site," says Eckart Schwamborn. "Our new suction system guarantees easy handling on site and increases the likelihood that it will actually be used." The new suction machine has an easy to use click system, antistatic hoses and a quick coupling system for hose extensions. It is rounded off by large, built in, abrasion resistant wheels, an integrated brake, a holder for cable ties and a Longobag tear resistant dust collector, all fitted as standard.

www.schwamborn.com

BlastPro aims to conquer the world

Oklahoma based Blastpro Manufacturing, Inc. is a US manufacturer of surface prep equipment and dust collectors. BlastPro have been operating and manufacturing 'world class' surface preparation and dust extraction products with its dust collection systems comprising of a series of four different models: BP-5-54, BP-9-54, BP-9-54-Steel and BP-6-54, with Blastpro's Chris Glenn stating that the BP-9-54 is its most popular model. This is a three-phase machine running on multiple voltages. It provides a very high efficiency and versatil-



ity when working on concrete surfaces, weighing in at about 129kg.

The BP-9-54 is recommended for use with the BP-10 Super-2 and BP-15 Super shot blasters. It houses nine filter cartridges and utilises reverse pulse, filter cleaning technology, cleaning three filters every 13 seconds. The internal EPA filter ensures clean, safe air discharge whilst the large dust bin allows the user to work longer than with comparable dust collectors. It also features two vacuum inlets, allowing additional equipment, such as grinders or edgers, to be operated simultaneously. Other features include a manufactured control panel, circuit breaker, an earth leakage module and a rugged, wear resistant electrical cord. The machine has an internal HEPA filter which is compliant with OSHA 29 CFR 1926.1153 and has a 2,039m3/h capacity and includes an internal EPA filter to ensure clean air discharge.

www.blastpromfg.com

Expanded dust shroud range from Au Tour du Betón

Au Tour du Beton's range of steel shrouds dedicated to bush hammering has expanded in recent months, to now comprise of four models in various diameters. A removable cover allows the bush hammer to be used as close as possible to the walls, with the shrouds also being used for grinding with a raised kit. The French company also offers rubber or steel shrouds for grinding and supplies a complete range of machines and consumables for floor preparation, bush hammering, grinding or polishing concrete floors. This includes grinding machines in the 'Scoot family', its 220V and 380V grinding machines, bush hammering plates for planetary grinding machines or hand grinders, as well as tailor made accessories and machines dedicated to the concrete industry.

www.autourdubeton.com











New Longopac version of Dustcontrol's DC 2900

DC 2900, Dustcontrol's most popular dust extractor, is suitable for vacuum cleaning and source extraction from handheld power tools (with up to 13cm suction casings) and small table saws. The DC 2900 has a steel chassis with large wheels and is lightweight and portable. The new, Longopac equipped version of the model, DC 2900L, is delivered with one roll of Longopac mini 12 especially developed for the DC 2900L. When ordering Longopac, it is possible to order either Longopac mini 12m (six rolls, 12m each) or Longopac mini 23m (four rolls, 23m each). The DC 2900 is delivered with additional equipment, such as a suction hose, aluminium floor tool, chrome steel suction pipe, fine filter (cellulose) and HEPA 13 filter.

www.dustcontrol.com

Ronda '1800H Power' vacuum cleaner

Since its introduction almost two years ago, the Ronda 1800H Power has become a very popular machine, not least in the longopac version. The powerful motor makes it possible to use longer suction hoses and the large multi tube filter is suitable for larger quantities of fine material such as concrete and plaster dust. Furthermore, the machine is approved as a class-H vacuum cleaner and is therefore also suitable for hazardous dust. Finally, the machine is very robust and handy thanks to its strong metal frame with integrated tube parking.



No more threads and shavings getting stuck

As to the Ronda 1800H Power with longopac, the longopac bag is, in the standard version, held down by means of a metal grille integrated into the longopac dispenser itself. If the 1800H Power is used for collecting rather long shavings, carpet threads or the like, there may be a risk of these getting stuck in this metal grille causing blockages. For this type of job, V. Brøndum A/S, the manufacturer of Ronda vacuum cleaners, has introduced a smart flap valve to replace the metal grille. The new flap valve has two flaps to maximise the opening and furthermore, it is possible for the user of the machine to adjust counter weights in such circumstances as very light dust. The new flap valve may also be mounted on existing machines.

www.broendum.com

Two new Klindex vacuum cleaners for large dust quantities

Klindex has introduced the Supervax X3 industrial vacuum cleaner with cyclonic pre separator and ASC automatic filter cleaning system being a compact vacuum cleaner for large quantities of dust. Over 95% of the dust is collected in the pre separator and, consequently, the filters do not clog easily meaning that the machine can work for a long time without filter cleaning. The cyclone pre separator has been integrated inside the machine to avoid the issue of having to move a vacuum cleaner and a pre separator around separately. It has a reduced height for easy transport even in small vans, and is equipped with a HEPA filter, shockproof drum and three independent 1,400W motors.

Klindex has launched a second industrial vacuum cleaner which shares many similarities with Supervak X3. Supervak K23 is also designed to vacuum large quantities of dust, for example dust produced by floor preparation or concrete polishing, has three motors of 220V at 1.400W each; polyester star filter; mechanical filter shaker; pre separator with cyclone; a plastic bag to collect dust, HEPA filter and large wheels. Thanks to the pre separator with cyclone system, over 90% of the dust is collected in the plastic bag positioned inside the pre separator drum. When the plastic bag is full, the operator closes it without contact with the dust.

www.klindex.com

Scanmaskin presents its most efficient industrial vacuum cleaner

Scanmaskin's new dust extractors, 'ScanDust 9000 World Series' in electric and propane versions, are focused on efficiency, design, ergonomics and ease of service. Scan-Dust 9000 World Series is the largest and most efficient industrial vacuum cleaner produced by the company due to its filter capacity and built in pre separators which are unique and patented, separating dust into two stages and providing up to 90% pre separation. This means that there is no need to clean the filters as often, which, according to Scanmaskin, gives longer and more disruption free operating time when compared to traditional industrial vacuum cleaners. As the pre separator is built into the machine, the operator does not need to handle or transport extra equipment. "We have listened to our customers, their challenges and wishes, and created an industrial vacuum cleaner that provides a significantly longer operating time and a safer working environment," says Anna-Lena Lööf, marketing director, Scanmaskin.

The filter area of the ScanDust 9000 World Series is 4.2m² and consists of 32 Teflon coated sock filters and





DME52D

Dry Drilling Motor with External Dust Extraction

	1800W (220V) 1800W (110V)	
Capacity	182 mm	

DMC6P

Wet & Dry Drilling Motor

Power Input	2000W (220V)	
	1700W (110V)	
Capacity	182 mm	

DM62

Dry Drilling Motor for Reinforced Concrete

Power Input	2000W (220V) 1700W (110V)					
Capacity						
Brick		262 mm				
Reinforced Co	162 mm					

AGP Europe

www.agp-europe.com info@agp-powertools.eu

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two HEPA 14 filters. HEPA 14 provides a high filtration rate of 99.995% and takes care of the smallest and most dangerous particles despite the high air flow. The electric version of the ScanDust 9000 World Series is equipped with a frequency control which allows adjusting power and speed depending on the application area. The combination of this together with high filter capacity and airflow enables the connection of more machines to the same vacuum cleaner. It has a height adjustable cyclone for better transportation and is equipped with solid rear wheels and 200mm large swivel wheels. The design aim was to make service easy so that the operator can access all parts with no need to disassemble machine parts for access. The vacuum cleaner is equipped with a filter guard that warns when the filters require cleaning, as well as a 'Jet-Pulse' cleaning system that easily pulses the filters to keep them clean. This machine is equipped with a Longopac bag system and features a steel construction as well as 95% recyclability.

www.scanmaskin.com

New pump model for Dynaset high pressure system

Last year Dynaset updated its pump line up for the 'HPW-Dust' high pressure dust suppression system by adding the HPW 250 pump model, thereby adding more flexibility to the range, making it able to handle pressure, as well as chemicals such as dust binding agents, more efficiently than previous models. The compact and eco-friendly HPW-Dust system is easy to install

onto any mobile machine being suitable for demolition machinery, excavators, screeners and crushers. It uses the hydraulic power of the machine to convert water to high pressure water mist. According to Dynaset, the system provides better dust suppression performance with a smaller water droplet size than traditional low pressure dust suppression systems. The company believes that a smaller droplet size also binds more dust particles with minimal amounts of water. The system is integrated onto the base machine's attachment head, or where the dust suppression is needed for maximum effect. It has a large variety of nozzles and pumps for configurations to fit all vehicles and dust suppression applications. It comes with a power washing pistol for power washing applications and can also be equipped with a 'Double Dust' boosting system that multiplies the dust suppression power. www.dynaset.com

Three stage dust collection with Superabrasive's new Lavina Elite series

Superabrasive new 'Elite' series of 'Lavina' dust extractors includes electric and propane models for use with different size grinders. The line also includes a new pre separator which works between the grinder and the dust collector to capture 95% of the dust before it reaches the dust collector. According to Superabrasive, it extends the life of the vacuum filter and reduces the

need to clean it. The new Lavina Elite dust extractors feature three stage dust collection, cyclone, main filter and HEPA, with important upgrades, such as new filters and seals. The main filters consist of a thermally bonded PTFE membrane with ALU coating, and are antistatic and hydrophobic. The new body design provides a smaller and lighter construction for convenient transportation, with easier access to HEPA filters, as well as a filter chamber with more space for dust. On electric models (115V and 220V), motors have separate valves and work independently from each other, so that the vacuum continues to work even if one motor is down.

www.superabrasive.com

More ionization with Renluftsteknik's updated OxySan 2000

During the latter part of 2019, Renluftsteknik in Mölndal, Sweden, updated its air ionizers, providing longer throwing distances and more ionization, which, according to Renluftsteknik, gives a better effect on particles which can sink to the floor faster. Normal ion levels in indoors air is roughly 50-500 ions per cm³ air, but with the new OxySan 2000, the ion level is at 3M ions per cm³ air. Renluftsteknik's goal with the update, aside from an improved effect on particles, has also been to make service of the air ionizers cheaper and easier.

www.renluftsteknik.se





College baseball player Bryan Brehm was introduced to Brokk when he was looking for work outside of school. After falling in love with a woman from L.A., the freelance Brokk operator started a new life on the west coast, founding Pacific Breaking.

n the 1990s, when Bryan Brehm attended Ohio State University at Lima, all he could think of was sport. He played baseball, as well as basketball, but was in need of work to make money to maintain his college studies. "I was doing odd jobs through a temp service which my mom ran," he recounts. "One of the jobs I went to was a labouring job for two days, where I worked for a company that asked me to come back full time the following summer."

It was during this period of labouring work that Brehm found the Brokk machine. He eventually continued working in the field all throughout college and, upon graduating, found himself in the profession as a freelance Brokk operator. Sometime later, another life defining path presented itself when he met his future wife Brittany. "One night in Las Vegas, I met an amazing woman. The problem was I was living in South Carolina and she was living in Los Angeles. After several months I decided to take the chance and move to Los Angeles. I had so much work I decided to go out on a limb and try and start my own company. This was the beginning of Pacific Breaking.'

Pacific Breaking, founded in 2018, mainly focuses on robotic demolition on commercial buildings within the Los Angeles area. In addition to buildings, a lot of work is done on cement plants, paper mills, glass plants and steel mills. The company has two employees, with Brehm being the sole owner. Freelance Brokk operators are also hired as needed. For the past seven months, Brehm has been working in Santa Monica, renovating the Google purchased Westside Pavilion Mall of approximately 55,750m2. "Throughout the project, I have had four Brokk 110 machines and four operators. A large portion of the roof was removed, which was previously a parking structure. Many mezzanines, stairwells and elevator shafts were removed from the four story building."

An array of exciting projects

Since 2018, Brehm has had the chance of taking part in many challenging and exciting projects. One of the more challenging ones happened last summer when he worked at a power plant in Twin Falls, Idaho. The purpose of the project was to replace a 1m vertical pipe that was attached to a 3m diameter pipe with a 1.8m vertical pipe. "I had to create a 3m x 3m x 9m shaft from the ground up. There was a big deterrent which was a 3m in diameter steel pipe. The concrete that needed to be removed then was from the bottom to the top, versus the standard top to bottom tear out."

To begin this part of the job, Brehm used a Brokk 160. He then used a modified Brokk 100 with a shortened arm, something he describes as essential because the work area was a small shaft with many limitations. "Scaffolding had to be installed in the shaft with the Brokk 100 sitting on top. The tear out had to be directly



underneath in 0.6m increments until I reached 9m where the steel pipe was located."

Another noteworthy job was the tearing down of two 61m smoke stacks at another power plant, this time on Manhattan Beach. The job was performed with a Brokk 160 on a fabricated device to hold the Brokk inside the smoke stacks. The job was exciting primarily because he was working 61m up in the air on the beach every day. "The Brokk was lifted inside the smoke stack with a crane. The smoke stacks had 61m of scaffolding placed on the outside. I demoed 3m a day pushing all material to the inside allowing it to drop 61m down."

'Outstanding' job market in California

The work on the west coast has proven to be a success. Brehm describes the Californian job market as 'outstanding' and a place where there is always work to be done. "I am working daily to get my company and information about the Brokk out there for companies to understand how much time these machines will save, in addition to how much safer they will make jobs." Despite the decrease in work because of the ongoing Covid-19 pandemic, there is still work to be done. However, Brehm looks forward to its end. "I believe that after things have been shut down for so long my job market will be booming. I am ready for Pacific Breaking to have tons of work and hoping to increase my employees."

Brehm has experience working all over the United States and has even worked in a few locations in Western Canada. Although he enjoyed it, the main disadvantage was being away from family. Now, with Pacific Breaking enjoying its fair share of success in his new home of California, he is in a good place in life. It is a different yet admirable home run for the college baseball player. "I got married and am now the proud father of boy and girl twins, Jaxon Truth and Bailey Harper. 2020 has been the most challenging yet exciting year of my life."



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reputation all over the world. The well-established brand was founded by Paul Von Arx from Switzerland, and acquired by the American company Emerson in the beginning of the century. In 2019 ownership has returned to Europe, to Fredrik Åkermark, who for many years worked as global sales manager for Pullman-Ermator.

he name Von Arx carries certain expectations for anyone working in surface preparation. The company was founded in 1941 by the inventor Paul Von Arx in the Swiss town of Sissach near Basel. Paul Von Arx is known for developing a range of different products having over 100 patents. Von Arx is mostly known for surface preparation machinery for concrete and asphalt, but also for handheld pneumatic tools, such as pneumatic scabblers, needle scalers and chisel hammers. The company and the brand stand for very high quality in terms of the products themselves, service and lifespan. The products have been sold all over the world for a long time, and in Sweden, the company Epox Maskin, has been the distributor for Von Arx since 1997. Lately, an agreement has been made with the Finnish company Machinery Oy which covers distribution in Finland, Estonia and Latvia.

A journey out of the ordinary

In the beginning of the 2000s, Von Arx was sold to the American company Emerson from St. Louis, Missouri, and was included in Ridgid Emerson's Ridge Tool Divi-



Part of the Von Arx staff in Plovdiv, Bulgaria.

sion. In 2019 ownership was transferred to the Swedish company Von Arx Sweden. The CEO of the company is none other than Fredrik Åkermark, who many in the industry will associate from his time with Pullman-Ermator. Fredrik has undertaken an impressive journey over the decades with things beginning at Bevaclean, which acquired Pullman's businesses outside of the United States and later Ermator from Gällö, Sweden. Further on, this company began collaborating with the American company Pullman-Holt and launched Ermator in the United States. The collaboration eventually led to the taking over of Pullman-Holt's business with the Ermator brand being strengthened in the American market.

As a result of this change, Fredrik and his family moved to the United States to lead the business, living in the United States for eleven years. Fredrik worked from 1994 to 2017 as Pullman-Ermator's global sales manager. As many in the industry will be aware, Husqvarna Construction Products acquired Pullman-Ermator in 2017 which saw Fredrik working at Husqvarna as global business development manager for dust and slurry and surface preparation. "We had an incredible journey of development with Pullman for many years and (continued) even under the ownership of Husqvarna," says Fredrik Åkermark. When working in the same industry for many years, familiarity develops which has enabled Fredrik to build up a large network. Thus when Von Arx was put up for sale, he couldn't let the opportunity pass. "This suited me perfectly. The company has many nice products with a high reputation all over the world," says Fredrik.

The move from Switzerland to Bulgaria

Initially it was a tough start but Fredrik and his colleagues are used to challenges. The entire Von Arx business moved from Switzerland to the city of Plovdiv in Bulgaria. Plovdiv is an industrial city, geographically located more or less in the centre of the country, being located on a flat area between two northern and southern mountain ranges. Since the move, the company has recruited new teams for product development, production and administration. "The work with moving the entire business delayed our production slightly, which caused some delivery delays to our distributors. But we have a very good sales growth which initially led to some growing pains in the company," says Fredrik. Today, the company has 20 employees in Plovdiv and sales have

developed. Deliveries have caught up much thanks to the skilled co-workers with all employees growing into their work tasks with all welding, bending and machine pressing being carried out in the factory in Plovdiv. "We build new experience every day," Fredrik states.

Von Arx milling drums are well known for their world class quality, and besides manufacturing milling drums for their own machines, the company also manufactures them for competitors and colleagues in the industry. Some of the cutting tools are manufactured in house, while some are purchased from external, high quality manufacturers in Europe.

Widening the distribution net and product range

What is currently being worked on is the further development of a network of distributors. Fredrik stated that even if Von Arx is a global and well-known brand, there are still many markets where the company has no representation and where there is room for major growth. The United States is one such market with the company recently making distribution appointments. Other markets with excellent potential are South Africa, Spain, Portugal, Poland, Croatia, Slovenia and Mexico. In around six to seven countries, the company is soon to begin distribution of its products. "Choosing the right





Fredrik Åkermark, owner and president of Von Arx.



distributor is incredibly important, that's something we've learnt after all the years at Pullman-Ermator. A high level of service and support are very important factors for a good distributor," Fredrik stresses.

In terms of products, the current Von Arx range consists of six basic models of surface preparation machines, VA10L, FR200, VA25S, VA30S, VA30SH and DTF25SH. Three pneumatic tools series will be added to this. "Our entire product development department today are working with developing and improving our current product ranges and customising them for more applications. We also work with a couple of entirely new products which we hope to present in the beginning of 2021," says Fredrik. The long term business plan is to widen the product range even more and the company is not adverse to the idea of acquiring other players that manufacture quality products in concrete preparation and associated equipment. In other words, Von Arx with its new ownership, sees exciting developments and future.

PDi will feature Von Arx in the magazine in a future issue, and from an editorial perspective, you never ceased to be amazed by developments within the industry. Just as it seems that many smaller companies are being acquired by major players, the industry always seems to find new ways for developing and keeping going on.

www.vonarx.com





The Covid-19 lockdown adopted in South Africa – one of the harshest in the world – effectively stalled the local demolition industry for two months before it was given the go-ahead to resume operations from 1 June.

ockdown was announced by South Africa's President Cyril Ramaphosa, becoming effective from 27 March with less than a week's notice. Only medical services, limited retail, provision of essential services and reduced coal mining operations were cleared to operate.

A halt for building and construction projects

The lockdown resulted in the cessation of the main demolition drivers: mining, construction, infrastructure development, and electricity expansion and maintenance. On 1 June the government declared the country at Stage Three of lockdown which saw some easing. It introduced a five stage reactivation of the country which will end at Stage One, with there being no timeframe for when this might be achieved.

"The industry, as far as our sector was concerned, came to a halt locally on 27 March. All existing work was stalled. Now that it is easing up we do not know what will happen with work already tendered for before lockdown. Many companies that had projects in mind requiring demolition have not yet stated if they are going ahead with the projects as initially planned," said Kyle Perkin, contracts manager of Wreckers Dismantling (Cape) (Pty) Ltd. "We have already had a hold put on one project in the petro chemical sector for which we had tendered," he adds.

The chairperson of Covid-19 Response Task Team for the construction industry, John Matthews, said that easing the lockdown for construction at Stage Three meant many construction companies could be saved whilst on the verge of collapse. The construction sector had lobbied for it to be spared from the lockdown from the outset. Undoing the lockdown comes with additional burdens imposed on companies in terms of health and safety requirements to keep the virus in check. These sector specific protocols are referred to as 'compacts', but the one for the construction sector has not been concluded yet and will be revealed in due course, according to the Trade, Industry, Industry and Competition Minister, Ebrahim Patel.

The all-important mining sector Minerals Council told PDi that on 25 March, following the announcement of a then 21 day nationwide lockdown by President Cyril Ramaphosa on 23 March, leading to mining activities being scaled down significantly. The lockdown was extended before the three weeks ended and eventually became nine weeks until Stage Three. Operations supplying coal to the national electricity supplier Eskom continued at reduced levels to optimise energy security and enable the manufacture of liquid fuels which was also considered an essential service. A spokesperson for the Minerals Council stated, "Ramping up to 100% again will take time as getting employees to return to work will be a gradual process requiring detailed and careful induction screening processes."

SA MAN 'DESERTED'

Johannesburg based demolition team member is currently stuck in the desert fulfilling a contract in the Middle East, not being able to return to South Africa until an international flight ban has been lifted. Richard Kelly is supervising the demolition of a 106m diameter oil tank with a capacity for storing approximately 200M/l, one of the largest in the world. Two South African members of his team managed to get back to South Africa after the local lockdown was announced. However, Kelly has been stuck in lodgings on site, being involved in the project on behalf of South Africa's Wreckers Dismantling (Cape) (Pty) Ltd.

"From a company financial perspective having a contract like this was beneficial as some work has continued during our lockdown when we have been inactive in South Africa. But Richard has not been able to return to South Africa for a break since he arrived on site at the beginning of February. As we do not know when the situation will change he is there indefinitely but keeping busy meeting the contract needs and looking forward to getting back," said contracts manager for Wreckers Dismantling (Cape) (Pty) Ltd, Kyle Perkin.

The project and host country, known to PDi, cannot be identified for contractual reasons.



At the helm and locked down in the Middle East demolishing one of the world's largest oil tanks is Wreckers Dismantling (Cape) (Pty) Ltd. technical director, Richard Kelly.





THE ART OF SURFACE PREPARATION

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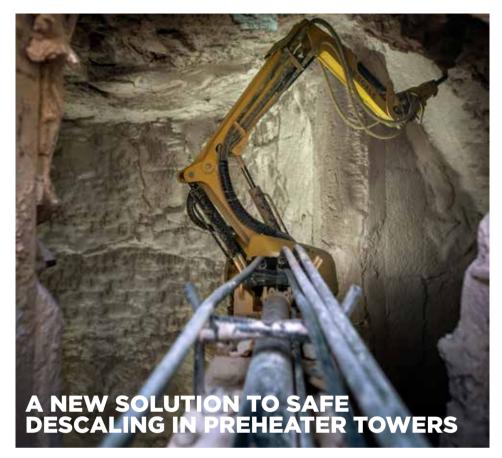
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Brokk, the leading manufacturer of remote controlled demolition robots has now introduced the 'Brokk Descaler', a specially designed solution for breaking out refractory, coating and build-up in a number of areas in preheater towers, primarily in cement and alumina plants. With a telescopic boom for long reach and remote controlled manoeuvring, the Brokk Descaler is said to revolutionise the working method for tearing out overhead material in such towers.

Health and safety is a constant challenge and an important issue for cement plants around the world. The

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

Conventional methods often involve manual pre inspection before sending workers in on scaffoldings with handheld tools making the work both critical and time consuming. Thus there are many advantages

for the productivity of the plant through the use of a Brokk Descaler. With quick installation, faster demolition and no need to install scaffolding, any shut down time is notably reduced. And since the Brokk Descaler does not require people to go inside, work can commence at 80°C.

Today, workers are not only exposed to the risk of falling debris, but also any silica dust that can get into the body and skin. Furthermore, the vibration from handheld tools is a known problem and can cause 'white fingers'. The Brokk Descaler places the operators outside of the vessel and alleviates or significantly reduces risks like these. "Brokk robots have been removing people from overhead coating and refractory in cement kilns around the world for ages. With this solution we can also protect the workers in the preheater tower, where the risk of falling debris is as obvious as in a kiln," says Joakim Furtenback, international sales director at Brokk AB, Sweden.

The Brokk Descaler evolved from a standard Brokk robot and is modified to fit the application in preheater towers without compromising on power. The telescopic boom is extendable by one or two sections that allows for descaling in vessels up to 9.5m in diameter. As preheater towers are of different designs and the build-up appears in various locations depending on design, raw material and other factors, a flexible solution is required. The Brokk Descaler is carefully developed to be used for a variety of vessels and is easy to mobilise to any location in the tower as it can be transported in most passenger lifts.

Installation can be completed in less than three hours and once installed the operator can safely overview the work from outside of the vessel through hatches, which allows for precise and controlled demolition. "Once you've seen the benefits of using the Brokk Descaler there is no going back to the hazardous methods previously used," says Joakim Furtenback. Hundreds of tons of overhead refractory can be removed with zero physical contact at a much faster pace than doing the same task manually. This ensures high productivity as well as safety for the workers providing, ultimately, a safer and more efficient worksite.

Komatsu Europe launches WA70M-8 compact wheel loader

The all new Komatsu WA70M-8 compact wheel loader is said to deliver first class operator comfort, optimum visibility, outstanding safety, an ergonomic interface, effortless operation and a bold contemporary styling for a strong distinctive visual presence. The WA70M-8 promises excellent customer value, whatever and wherever the job.

The WA70M-8 is equipped with a powerful Komatsu low emission engine and diesel particle filter (DPF) and complies with the EU Stage V regulations. Engine power was increased by 25% over the previous model and now reaches 46.2kW. Optimised for tough construction applications, its fully automatic hydrostatic transmission sends power to all four wheels. High torque with the low rpm engine setting gives fast uphill travel performance thanks to stronger engine power.

The operator can rely on 'Easy Fork' kinematic to transport loads with Komatsu pallet forks parallel to the ground without readjusting the fork tines. Operators still benefit from the 'Z-bar' kinematic, with high breakout force, as well as fast and easy bucket filling for the easy handling of the machine. Thanks to the wide opening engine hood and tilt-able cabin, all service points are easy to access. A 6,000h cleaning interval typically makes the DPF maintenance free for 10 years. The newly designed engine with high torque at low rpm level boosts performance and helps to achieve low fuel consumption in every application.

All maintenance and service can be performed easily and quickly thanks to the tilting cab. The engine hood opens widely for a quick daily inspection, the electric equipment is well protected behind a maintenance cover, and the easy to clean wide core radiator, with an optional reversible fan, is conveniently accessible. "The new WA70M-8 completes the Komatsu compact wheel loader range equipped with the latest EU Stage V engine technology," says Michael Wadsack product manager at Komatsu Europe. "Designed with compact dimensions, excellent all around visibility and a wide variety and easy to use options, it is the most loved little helper on every jobsite."





GSSI releases 'PaveScan RDM 2.0' asphalt density assessment tool

Geophysical Survey Systems, Inc. is a leader in the development, manufacture and sale of ground penetrating radar (GPR) equipment, primarily for the concrete inspection, utility mapping and locating, road and bridge deck evaluation, geophysics, and archaeology markets. Its equipment is used all over the world to explore the subsurface of the earth and to inspect infrastructure systems non-destructively. The company has now announced the release of PaveScan RDM 2.0 which is an innovative asphalt density assessment tool that provides accurate real time measurements to ensure pavement life and quality.

GSSI unveiled PaveScan RDM 2.0 for the U.S. and Canada at the Transportation Research Board 2020 conference in January. PaveScan 2.0 incorporates a new sensor design built specifically for the extremes of the asphalt paving environment and foldable deployment arms with high visibility for work site safety. It is ideal for uncovering problems that occur during the paving process, including poor uniformity and significant variations in density. By avoiding these problems, it helps avoid such premature failures as road ravelling, cracking, and deterioration

The system automatically measures the dielectric value to identify anomalies in real time. In addition, the dielectric values can be used to as a means to correlate percent voids and density in new pavement, with the innovative technology enabling users to obtain critical density data for QA/QC of new pavements. Unlike other options, such as nuclear density gauges or radioactive alternatives, PaveScan does not result in any site hazards or require closing off work areas.

Seamlessly integrating with GPS systems, PaveScan features a flexible, modular design that facilitates easy and efficient operation and data collection. It is offered as a single sensor or a three sensor cart based configuration. As of April 2019, this pavement density measurement technology is an accepted American Association of State and Highway Transportation Officials (AASHTO) specification, PP 98-19.





825 E-Series the perfect addition for dismantling, sorting and loading

A mobile demolition machine from Sennebogen with a quick change system has impressed with its qualities of being a material handler designed and thoroughly proven to withstand continuous use in scrap yards. Additionally it can be moved even more easily and quickly making the 825 the ideal addition to the fleet for smaller, inner city demolition projects.

Demolition machines must reliably do their job, whether tearing down, crushing, transporting and loading. Important criteria for the right machine for the job are whether the machine and hydraulic system have the necessary power for the operation, the smallest possible rear radius, and the selection of the required attachments. The latter should be as flexibly interchangeable as possible, as the intervals between demolition and sorting activities may vary from hour to hour, depending on the storage capacity on the construction site. At the same time, a comfortable and safe working environment must be created for the operators of the demolition machines. Sennebogen's 825 Mobile E-Series fulfils all these criteria, but it can do even more. The mobile material handler has been designed for demolition projects having a powerful and economical 129kW Stage V diesel engine, and is a multifunctional all-rounder for demolition sites, especially in narrow spaces.

All tasks on the demolition site combined in one solution

Just like a Swiss army knife, Sennebogen's mobile demolition solutions offer a wide range of possible uses, ranging from selective dismantling to the loading of demolition waste into trucks or storage containers. In the case of the 825 E-Series, this is particularly easy to achieve thanks to a fully hydraulic quick change unit at the end of the grab stick, allowing the operator to

switch from bucket or shear to sorting grab use in just a few minutes. In addition, the powerful hydraulic circuit guarantees reliable and precise working, including shear applications weighing up to 2.5t at a reach height of up to 14m.

Maximum safety and efficiency

To protect both man and machine equally, there are additional features that prove their worth on the construction site. The 'Maxcab' for example, can be equipped with a safety package on request. This includes protective grills on the roof and front windscreen. Optional protective plates for the cylinders ensure that the piston rod remains permanently intact. The cab's 30° tilt contributes to the driver's overview of the entire working area, with two security cameras on the right and at the rear providing additional support.

Thanks to a wide range of 'green efficiency' technologies, the diesel powered Sennebogen machines operate with particularly low emissions, low wear and tear and save energy. Inside the machine operating costs can be reduced significantly thanks to the built-in hydraulic pump that pumps the oil through large scale valves and hoses, enabling lifting or demolition task to be carried out. The entire hydraulic circuit is thus relieved by means of a lower system pressure, which results in a proven reduction in wear on pressure sensitive components. Energy intensive auxiliary consumers, such as the fan, are also thermostatically controlled and are therefore only activated when required. 'EcoMode', automatic idle and automatic stop, reduce diesel consumption when handled optimally by up to 25%. The intelligent, ex works installed engine speed control systems help demolition professionals to reduce operating costs sustainably without the need for separate operator training.



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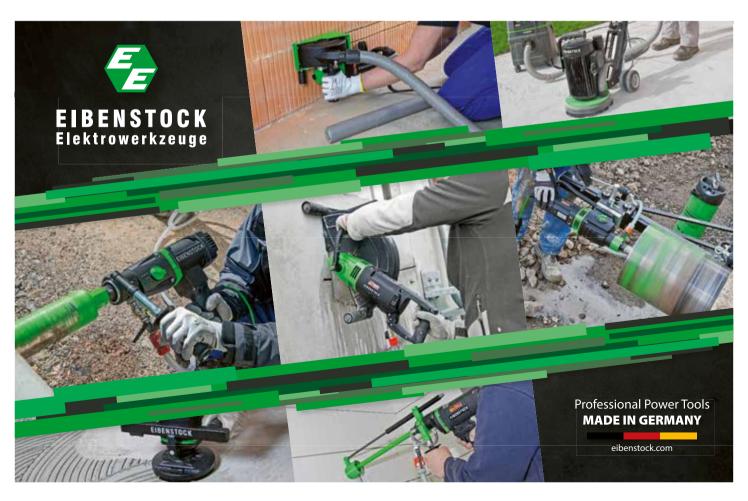


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New Doosan excavator dismantles historic pipe bridge

Tilo Süptitz Transporte e.K., based in Roitzsch in Germany, specialises in earthworks, demolition and transport. For the more demanding tasks, owner, Tilo Süptitz, mainly relies on Doosan wheeled and crawler excavators, as was seen during the demolition of a pipe bridge crossing in Torgau. Here the company carried out the work using its new Doosan DX255LC-5 narrow track excavator.

The pipe bridge crossing in Torgau was built to carry a pipe that connected a former Elbe jetty across the meadows to the main pipeline on the Elbe dam. It spanned the Elbe meadows at a height of around 100m at a flood safe height. The Elbe pier had not been used for a long time and as a result, the bridge was removed by Tilo Süptitz and his team using the Doosan DX255LC-5 excavator, with the difficult access to the bridge for the excavator and trucks being a particular challenge to overcome. The company transported around 600m³

of concrete using its own trucks which took the debris away for processing.

The DX225LC-5 performed excellently, its powerful extension arm combined with the high level of stability ensuring that work progressed quickly and was completed on schedule after two weeks of work. The excavator was used for almost all the work, as in addition to the actual demolition of the bridge, it also included demolition of the foundations, pulverising the concrete and loading the trucks. In addition to a bucket, a 1.9t hydraulic hammer and a roughly 2t pulveriser attachment were used.

More power, lower fuel consumption

The Doosan DX255LC-5 used by Süptitz uses the proven water cooled Doosan DL06P six cylinder diesel engine with turbocharger. The DL06P engine delivers 141kW of power at a speed of 1,900 rpm. The cab on the DX255LC-5 offers the operator outstanding driving comfort and a high level of user friendliness. The jog shuttle switch, used on all new generation Doosan excavators, and a new system that can be used to operate attachments either via a joystick or a two way pedal, are also on board. This is particularly useful in demolition when precision is required enabling the driver to keep full control of the excavator with the joystick while simultaneously controlling the attachments via the two way pedal.

Optimal combination

Tilo Süptitz Transporte e.K., offers its customers services in the areas of transport and trade in building materials, demolition, earthmoving, processing, construction debris recycling and mobile cranes. The 20 employees can access a fleet consisting of various trucks, modern screening and crushing plants, various types of excavators, wheel loaders and a variety of attachments such as chisels, scissors, hammers and pulverisers.

Tilo Süptitz has worked with the dealer, Doosan Ziesmann, for around 28 years. Eight years ago, he opted for a Doosan excavator for the first time and has not looked back since. In addition to the DX255LC-5, his fleet also includes a DX225LC-3 crawler excavator and a DX170W-3 wheeled excavator. Tilo Süptitz commented: "The Doosan machines are very reliable. We have exchanged all of them with new machines over the last eight years and the long term experiences are extremely good. At the same time, we also use Doosan machines from the Ziesmann rental fleet. The service is excellent and Roland Ziesmann always makes himself available for us. In Ziesmann, we found a reliable partner which works with us on an equal footing." As stated, in addition to the three Doosan machines he owns, Tilo Süptitz regularly uses Doosan machines from the rental fleet of Ziesmann Baugeräte GmbH. The good service from Ziesmann as well as the high performance and reliability of the Doosan machines represent an optimal combination for him.

MB CRUSHER DRUM CUTTER HELPS TO EXTEND BORDEAUX TRAMWAY SYSTEM Presently, the Bordeaux Mérignac Airport is the hub of a large scale project which will see the creation of new infrastructure, new buildings, a 'park and ride' facility with a capacity of 250 places, the creation of four to five new stations, and the arrival of a tramway. Today the airport is only reachable by car, shuttle or local buses, but in order to facilitate access for both travellers and airport staff, while reducing road traffic, an extension of Line

A is required to be constructed with minimal impact. To satisfy project requirements, the French con-

tractor chose an MB Crusher MB-R700 twin header to trace the route of the new tram. The MB-R700 hydraulic cutter installed on a Liebherr 914 excavator made it possible to limit vibrations, with its design further reducing any noise pollution. The cutter performed with exceptional precision in the grinding process, meaning that the flow of traffic continued undisturbed. Furthermore, any milled material could be used for filling, eliminating the haulage of any waste

from site, with a substantial reduction in costs for the contractor. As the tramline is an environmentally friendly choice that will also ease the flow of traffic all the way to the airport terminal, it made sense to use an eco-friendly option by reusing the material available at the site thereby reducing drastically the number of trucks in the city centre.

The MB Crusher grinder head has proved to be essential to the project: it uses a direct drive twin motor system that permits the milling of any material whilst achieving high production rates. Additionally its 'power boost' gives instantly more energy to the grinding head when more power is required. The MB-R700 is suitable for any brand of excavator from the 6t to 13t.



The 'disinfection tunnel' providing protection against viruses, bacteria and fungi

The Italian company EmiControls has been working worldwide since 2011 on developing innovative solutions to protect people and businesses against fire, dust and odours, with its water mist turbines being used for this purpose also being usable for spraying disinfectants. Since the outbreak of the Coronavirus pandemic, Emi-Controls has developed various disinfecting solutions and services, with its own specialist disinfection team, which travels throughout the north of Italy cleaning production facilities, warehouses, offices and so forth.

The latest development in the EmiControls range is the 'disinfection tunnel'. This is a kind of open air shower that allows people (but also goods and objects) to disinfect themselves from head to toe. With the help of nozzles, the disinfectant is atomised to a fine water mist, which is applied to all surfaces such as clothes, shoes, hands and bags. After passing through the tunnel, people and the objects they have brought with them are disinfected and no longer pose a danger to others. The possible uses of such a tunnel are diverse and include public places, entrances to hospitals, workplaces, trade fairs, events, hotels and spas.

For disinfection, a new and highly innovative agent is used, which removes viruses, bacteria and fungi quickly and easily and is completely harmless to humans, animals and the environment. It reliably kills viruses, bacteria and fungi within a very short time and its affects last for at least 18h and has also been tested on the Coronavirus. EmiControls uses turbines to apply



the disinfectant to large indoor and outdoor areas. The model V12so is equipped with a dosing pump, so the disinfectant can be mixed correctly. The range is 30m or 50m (it runs on two speed levels) and consumes only 4l/ min and with 60 dB (A) the turbine is particularly quiet.

The company also provides custom made solutions for fighting fires, dust and odours with the help of water mist. Its expertise and know how in the fields of mechanical engineering, in the field of water atomisation in particular, has enabled the company to achieve

unprecedented results across a wide variety of areas. Safety when firefighting can be greatly increased thanks to water mist's ability to deprive fires of energy and to substantially increase the cooling effect. When used for dust control, the fine drops of water immediately attach to the dust particles and bring them to the ground thereby helping to keep the air free from pollution. Odour control solutions are already being successfully used in composting and recycling plants creating a more pleasant environment for employees.

FIXED OR ROTATIONAL DRUM CUTTERS? EPIROC DRUM CUTTERS CAN DO BOTH



'Pro bracket' is a high quality, rigid manifold for transverse drum cutters, delivering consistent output quality and efficiency with increased investment protection being the key features of the new product.

Epiroc's drum cutters have endless 360° hydraulic rotation, enabling optimal positioning and the precise handling of the drum cutter. The new Pro bracket fixed manifold significantly improves the protection of the hoses when working in confined areas and where there is limited visibility, without compromising the exemplary quality and performance. While the tried and tested hydraulic rotation unit continues to prove popular with its precision and flexibility, the Pro bracket primarily offers additional protection of the customers' investment in the machine for particular applications.

Optimised hose guidance is achieved as the hydraulic hoses run directly along the excavator arm and are fed out to the back in the centre of the extension arm for protection. This means that they are subjected to significantly less mechanical strain, do not cross each other and are better protected during work with minimal visibility of the cutting heads (e.g. during channel construction, close to walls, in tunnels or in water). A robust design in the form of a closed box prevents any demolished material from falling onto the engine cover from above.

The rigid bracket, with its range of usage options, is particularly flexible, being suitable for even the most challenging applications and can also offer a number of useful options. Epiroc offers the Pro bracket with an optional water spraying system to meet the ever increasing requirements for dust suppression during demolition work, tunnel and channel construction. The installation of an optional additional valve enables the overflow oil line and return to be combined so that the drum cutter can be connected to the breaker circuit of the excavator with just two hoses. The option is available to choose either a rotating or static support bracket depending on customer requirements.





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his was the case on a job in Göppingen. In the southern German town, home of Kleemann brand headquarters, CK Abbruch & Erdbau GmbH deployed a mobile MOBIREX MR 130 Z EVO2 impact crushing plant to crush rubble from a demolished department store with a multistorey car park and separate it into classified grain sizes while keeping dust levels to an absolute minimum. On this typical urban job, the Kleemann crushing plant impressed users above all with its flexibility. Markus Christadler, Managing Director of CK Abbruch & Erdbau GmbH, explains why it is an advantage for demolition companies.

About CK Abbruch & Erdbau GmbH

Established in 2003, CK Abbruch & Erdbau GmbH engages primarily in demolition and earthworks. The team headed by Managing Director Markus Christadler has acquired high-level competence particularly in processing rubble. The company today processes some 250,000t of recycled feed material annually. Use of the innovative Kleemann crushing plant illustrates the changes taking place in the industry: a wrecking ball used to be the classic symbol of demolition companies, but environmental policies have long since changed the framework conditions for this work. Today, different types of building materials have to be recycled separately, which calls for the use of precise and efficient equipment.

Mr Christadler, what kind of work do CK Abbruch do and which Kleemann machines do you use?

We are primarily active in building demolition, including waste recycling and earthworks. Most of the time we handle these tasks for our own construction projects, but we also get hired on job sites as a contract demolition company. As such we are frequently involved in demolishing residential and industrial buildings. Recently, we were hired to take down a shopping centre with multistorey car park in central Göppingen and to process the material on site. In applications of this kind, we use our mobile MOBIREX MR 130 Z EVO2 impact crushing plant. With its very high output, this plant has always done an impressive job, despite often having to operate on difficult job sites and process a wide range of material. Our fleet also includes a mobile MOBISCREEN MS 13 Z screening plant, which is mostly used to screen rubble and soil.

Do you modify the Kleemann plants for different jobs?

Yes we do. For example, we always adapt the rotor ledges on our MR 130 Z EVO2 impact crusher. We have a rotor ledge set for hard material like concrete rubble and natural stone, and another for soft material like asphalt. But since we usually feed the plant with hard stone, we actually don't have to change sets very often. Together with our contact at the Wirtgen Group sales and service company in Augsburg, we have set up a schedule for the provision of wearing parts, so we are automatically supplied every three months with new rotor ledges for our MOBIREX impact crushing plant. And if we occasionally see more extensive wear, they get the corresponding spare part to us right away. In addition, our employee who operates the plant always keeps a set of rotor ledges and the most important wearing parts on hand at every construction site.

What are the greatest challenges you face on a daily basis as a demolition company?

Quality is the deciding factor in processing the material. It is very important to deliver a perfect product to customers, because we - and by that I mean the entire mineral-based rubble recycling industry - compete with natural products like crushed stone and gravel. In other words, our final product has to be processed to be as cubic and as accurately classified by grain size as possible. Another challenge is the obstacles that still exist to on-site processing. For example, some municipalities have regulations that strictly forbid processing within town limits. Some developers don't allow processing in urban areas at all in their invitations to tender. In such cases, the material has to be hauled to a recycling yard for processing, requiring additional transport. However, the most ecological and economical alternative is to process the material on site.

How do local residents react to Kleemann's crusher equipment in their neighbourhood?

We get some resistance from local residents at first. They're afraid of the noise and the dust. But once we get started, we very frequently hear that the crushing activity

did not bother people at all and was much quieter than expected. Often, the noise of the excavators and lorries travelling back and forth is much more of a nuisance. And we really have dust under control thanks to the spray system integrated in the crushing plants.

Why do you have a Kleemann MOBIREX 130 Z EVO2 impact crushing plant in your fleet of machines? What are the advantages of an impact crusher in your opinion?

Apart from the quality requirements I mentioned before - the keyword here being a cubic final product - we also attach great importance to efficiency. Every drop of fuel and every kilowatt of electricity counts in our work, because these savings add up over every hour of operation. This is a very important point in favour of Kleemann in general, and of the MR 130 Z EVO2 in particular. My team and I also see safety as a top priority. Systems such as the Lock & Turn, with its key transfer system, are a real improvement in safety and they make sure our employees can return home safe and sound after a day at work.

Is the MOBIREX 130 Z EVO2 impact crushing plant suitable for all your demolition applications?

Basically yes. But it is a bit oversized sometimes. For example, we recently had to process rubble from a hotel in an inaccessible area right in a town centre. Thanks to our good relationship with Wirtgen Augsburg, we were quickly provided with a plant that was better suited to the job, in this case the mobile MOBICAT MC 110 Z EVO jaw crusher. It's smaller, more compact and was more than adequate for the job.

What do you appreciate most about Kleemann equipment and your collaboration with the Wirtgen Group?

The spirit of partnership more than anything! You can really sense their willingness to make anything possible. The plants are perfectly tailored to meet all requirements and deliver an impressive performance. The MOBIREX MR 130 Z EVO2 was originally a demonstration machine presented to us by our contact at Wirtgen Augsburg. We were so impressed with it that we kept it! Even subsequent requests we had were handled smoothly. They really deliver on their pledge: "close to our customers".

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A COMPACT SOLUTION

In business since 1955, General Equipment Company is a family owned manufacturer of hole digging, surface preparation, dust collection, plus portable ventilation, air scrubbing and lighting equipment. Its latest development is the new SG7 SurfacePro edge grinder which is an ideal edge grinder for everyone from 'do it yourself' enthusiasts to commercial contractors. Intended for smaller areas, it can accommodate a wide variety of surface preparation applications, such as levelling concrete and asphalt with what is said to be unmatched productivity and versatility. Its heavy gauge steel frame is ergonomically designed to allow the operator to work in a fully upright position which reduces the potential for lower back pain, strained knees or other occupational related health issues, all while increasing productivity over hand held grinders.

The compact size of the SG7 is said to provide a unique advantage over other edge grinders on the market. With a detachable handle and weighing only12.3kg without a blade, it is easy to lift and transport, fitting in almost any size vehicle. It also provides the rigidity to remove materials with more accuracy and control than larger machines that lack the same agility and manoeuvrability. Other standard features include 'Anti-Vibe' caster wheels and a 38.1mm diameter dust connection port and hose to handle applications with dust control requirements. The SG7 also comes with a flexible dust shroud that incorporates a flip up edge for improved viewing of the grinder cup edge when operating near features such as walls. The edge grinder comes supplied with a 178mm diamond cup wheel.



Kobelco Construction Machinery Europe B.V. (KCME) is pleased to announce the arrival of the SK130LC-11 that extends Kobelco quality, economy and reliability within the 12t to 14t operating segment. It is said to set high standards as a direct result of precise manufacturing and a high tech design, with customer feedback being a key element in its design process. The result is an excavator that delivers productive mechanical power, operating speed, refined operator comfort and fuel efficiency.

The SK130LC-11 is the first premium Kobelco excavator to enter the 12t to 14t operating class, and is powered by an Isuzu Motors Ltd R-4JJ1XDDV-A01 latest generation turbocharged diesel engine. Together with its balanced chassis layout, the SK130LC-11 provides exceptional lifting capability and stability. The SK130LC-11 design includes a thoroughly modern and spacious cabin that features intuitive, easy to use operating controls and systems. A large colour monitor provides an easily accessible and programmable menu, machine status information and provides clear rear and right side views from the upper deck cameras.

Other areas under the design spotlight include repositioning the safety valve on the cylinder arm to further minimise the risk of accidental contact with site obstacles, and the mounting lug dimensions on the standard bucket have been uprated to suit the available digging force. A large fuel tank with a 280l capacity reduces refuelling downtime and includes a fuel cap that meets EN regulations to prevent fuel spillage. Parallel front window wipers are now in place on the front window and give a larger swept contact area, with the wiper system also having 'one time' use selection. Internal LED lighting that reacts to door opening / closure and main ignition on / off further promotes operator safety.

Commenting on the introduction of the new SK130LC-11, product manager, Peter Stuijt, said: "The introduction of the SK130LC-11 to the UK and mainland European markets is a very important decision by Kobelco. The 12t to 14t operating class is populated with smaller contractors and, certainly in the UK, rental fleet companies who specialise in lighter machines that are productive through being versatile, powerful and economic from low running costs and extremely competitive initial purchase price.

"The fact it is emissions Stage V compliant extends the already impressive specification of this excavator. As do the latest operating features and increased operator comfort, all of which raise production efficiency by some degrees. All of the aforementioned are key purchasing points of potential customers. Add to the mix Kobelco's famed reliability and durability then it is clear the SK130LC-11 is the obvious choice in this operating class."





SERIAL PRODUCTION OF SECOND MACHINE TYPE

Consistent quality control, better control of delivery times and expansion of production capacity were the main reasons for the move of Rockster Austria International GmbH from Ennsdorf to Neumarkt im Mühlkreis last year.

The production of the impact crusher R1000S, equipped with a multitude of technical refinements, was the first hard test at the new location. "The team, consisting of many new employees, showed tremendous commitment and willingness to integrate from the very start to collectively master this milestone in our company's history," says Rockster CEO Wolfgang Kormann. Thanks to a successful channelling of workflow and constant modernisation of work processes, bottlenecks in the procurement of resources and in assembly have now been greatly reduced. "Our original idea of being able to control performance better, implement optimisations faster and more precisely has been very successful with the in house production," says Kormann. "We are very satisfied with the progress, the new production employees integrated much faster than expected thanks to the great support of our long standing colleagues. Overall, our customers are extremely satisfied with the new Neumarkt crushers."

Most compact next in line

Now also being built at the new site, with a total weight of only 19.6t and a length of 9m, is the impactor R700S which is the most compact system in the Rockster portfolio. The double functional return and stockpile belt, which was first built for the R700S, has proven itself so well that it is now used on almost all other Rockster models. Additionally the control system has also been revised and the quick start function for the R700S crusher has been introduced. This enables the system to be engaged and running by pressing just two buttons on the remote control. A new material feed monitoring system provides the best possible utilisation of the crusher and contributes to an increase in performance of up to 25%. The overload protection in the crushing chamber also ensures safety against blockages and thus reduces downtime. The new R700S is also equipped with the latest Stage 5 Volvo Penta engine with 220PS engine.



Saving lives in mobile machinery arenas

Brisbane-based control and engineering solutions firm, PRM Engineering Services has recently introduced the latest in Artificial Intelligence (AI) technology that monitors danger zones and alerts safety breaches in real time.

Developed over the last three years, Sentinel VISION AI responds directly to growing legislative and cultural safety impetus by detecting pedestrians around moving machinery.

Sentinel VISION AI's focus on both operator and pedestrian safety sets it apart from typical safety solutions on the market that solely focus on operators or site employees.

PRM Solutions' Director, Mike Davis said there was a need for more innovative safety solutions in Australian hazardous essential service environments.

"In complex workplaces such as waste, rail and construction there can be many obstacles and objects that may not be critical but do trigger regular alarms; resulting in operators tuning them out," said Mr Davis.

"This imposes a huge risk on employees and other pedestrians in the area, which is why we have developed this advanced human-only detection system to limit alarms to critical risks and alerts both the operator and pedestrian," he said.

Sentinel VISION Al uses cameras, machine-learning and information input algorithms that detect humans or parts of a human and trigger both visual and audible alarms to alert the operator and the pedestrian.

This safety solution is adaptable for dangerous working environments where mobile machinery and earthmoving equipment, such as loaders, waste trucks and excavators, are used in close proximity to pedestrians.

While operators are trained to protect the safety of others, there are many situations where pedestrians may put themselves in danger without realising, such as passing by a kerbside collection waste truck, walking past a construction site or walking behind a reversing machine.

"There are many instances where pedestrians or cyclists may enter a hazardous area without realising which imposes significant risk on both them and the operator," said Mr Davis.

"Our technology will accurately safeguard the operator and surrounding pedestrians in such environments, minimalizing the risk for everyone," he said.

While Sentinel VISION AI was originally developed to monitor the safety of workers and pedestrians around heavy machinery and mobile plant, PRM Engineering has recognised the ability for this technologically to be adapted for enforcing social distancing requirements.

Sentinel VISION AI can be of great value to many public environments such as retail spaces, public parks, gyms, offices, cinemas, and warehouses that may not have the resources to effectively monitor each person's movement.





DOOSAN LAUNCHES DX235DM

Doosan has launched the new DX235DM, the first of the company's new range of high reach demolition excavators (two further models in the range - the DX380DM and DX530DM - will follow later this year).

Typical of the design of the new demolition machines, the DX235DM has a high visibility, tiltable cab, particularly suited to high reach demolition applications offering a 30° angle. Another key feature of the DX235DM, which is shared with the other models in the new high reach demolition excavator range, is a modular boom design and hydraulic lock mechanism on the machine. This provides the customer with a complete, flexible solution that allows the same excavator to be used for other applications on site as well as demolition. The innovative design ensures it is a simple process to change between a demolition boom and an earthmoving boom to accomplish different types of work on the same project. A special stand is provided to facilitate the boom changing operation, which is based on quick change hydraulic and mechanical coupler connections. A cylinder based system is used push the locking pins into place to help complete the procedure.

The multi boom design also allows the earthmoving boom to be mounted in two different ways, which as with

the demolition boom provides further flexibility with a total of three different configurations for the same base machine. For the DX235DM equipped with the 18m long demolition boom, the impressive working range allows the machine to work with a demolition attachment to a maximum height of 16m. The recommended maximum combined weight for the attachment and quick coupler in this mode is 2.1t. When equipped with the digging boom in the straight configuration, the DX235DM can work to a maximum height of 9m. In this format, the recommended maximum weight for the attachment and quick coupler is 3.3t. Using the digging boom in the alternative bent configuration, the DX235DM can work with an attachment to a maximum height of 8m. In this mode, the recommended maximum weight for the attachment and quick coupler is again 3.3t.

The DX235DM has a hydraulically adjustable undercarriage, which extends to a maximum width of 3.74m to provide optimum stability when working on demolition sites. The width of the undercarriage can be retracted hydraulically to 2.54m in the narrow width position, which is ideal for transporting the machine. The mechanism is based on a permanently lubricated, internal cylinder design which minimises resistance during the movement and helps to prevent damage to components.

Three new models added to Rotar's RCC concrete cutter range

Rotar has expanded its RCC concrete cutter range with three new models - RCC 20, RCC 25 and RC 45 - which join the previously released RCC 30. The cutters are designed for machine classes of 18t-25t, 20t-30t and 38t-55t respectively. The RCC cutters have short cycle times, despite their power, and are fitted with replaceable cutting teeth, which are easy to maintain and replace. The wear resistant, casted cutting teeth offer protection to the cutting jaws whilst the RCC is equipped

with two hydraulic cylinders with an integrated 'Ramplifier', which activates and doubles the pressure up to 700bar when the cutter faces heavy resistance (the Ramplifier technology is a Rotar in house designed development). The RCC is constructed from high grade performance steel. The large diameter of hoses, bores and pipes reduces the back pressure in the hydraulic system, whilst its long bearing pivot points support combined loads from all directions.



VSE SCREENING BUCKETS

the only ones with adjustable output size in a few seconds from the operator cabin



Designed for separating different-sized materials on the work site, Simex VSE screening buckets are unique for their easy loading, very simple operation and high productivity. The exclusive Simex patent allows rapid adjustment of output size of the screened material in only seconds via a control in the operator cabin.

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- **✓ EASY LOADING**
- **✓ EASILY REPLACEABLE SCREENING TOOLS**



The question often arises, "there has to be a better way?" Matt Hephner asked that question, and what's more, he decided to do something about it, resulting in an innovative concrete saw attachment especially designed for use with skid steers.

ephner, a concrete cutter for more than 35 years, co owns the Knoxville, Tennessee, sawing and drilling company, Cuts, Inc., with his son, Matthew. Several years ago, he was preparing for a large job requiring multiple cuts through 380mm thick sloped concrete slabs in a short amount of time. Though the challenge was certainly enticing, the requirements to tackle it - five crews with wall saws - didn't add up. A search for attachment alternatives also came up empty.

Rather than simply pass on the job, the Hephners put their heads together and fashioned a prototype hydraulically powered diamond saw attachment that could be used with a skidsteer. "The idea was to have the mobility to move quickly from one cut to the next eliminating the set up time associated with wall sawing equipment, but also be efficient and simple to operate," Matt Hephner explains. The Hephners put their saw to work and got the speed, cost, and quality results they and the customer were looking for.

Realising the attachment's potential applications, they used experiences of subsequent jobs to refine the design, such as incorporating an anti-cavitation feature to protect the hydraulic motor, adjustable flow and pressure to adjust the blade's downward speed and force. "We also added hydraulic pressure valving to protect motor in case of blade jams," Hephner adds. "All these items together allowed us to receive the first patent for this type tool." Before long, the Hephners found themselves fielding calls from other contractors asking if they too could get one of these remarkable attachments. And a new business, Skid Steer Saw, was born.

Available in three models (SS2600, SS3600, and SS4200) Skid Steer's saws can accommodate all sizes of diamond blades to make cuts up to 457mm deep, while custom builds can go as deep as 508mm. Most customers use the attachment for cutting asphalt and concrete roads and highways, but Hephner reports that the range of applications has grown to include cutting stone, concrete panels, sewer and drainage pipes, fibreglass panels, and aluminium. And because the saw attachment is operated by a skid steer, it can be used virtually anywhere.

The fame of Cuts, Inc. and its skid steer saws has extended far beyond the mountains of east Tennessee. Avionics Limited, a Sydney, Australia based airfield lighting specialist, found the saw attachment particularly helpful in carrying out an upgrade to Melbourne Airport's airfield lighting system. The work involved 3,000 light fitting locations and nearly 35,000m of slot cutting, ranging in size from 15mm x 30 mm to 35mm x 30mm. After finding only three suitable sawing options, Avionics chose Cuts, Inc.

"The company has developed the saw with a contracting background," explains Avionics construction manager Shane Webb. "Matt and his team understand the complexities of saw cutting and have been able to

incorporate this understanding into their design. The initial video of their road saw demonstrated an easy to operate, safe and versatile attachment that had four wheels in contact with the ground. The attachment has exceeded our expectations and our dealings with Matt and the team at Cuts Inc has been both professional and friendly."

Recently, the Hephners were able to demonstrate the skid steer saw's ruggedness in a U.S. Air Force demonstration project aimed at finding ways to expedite repairs to damaged airfields anywhere in the world. Conducted at Tyndall Air Force Base in Florida, a 500kg SS4200 matched with a Caterpillar 2890D was pitted against several other sawing tools to cut through the test area's 457mm thick, 620bar concrete slabs. "The machines were evaluated based on weight, size, and speed," Hephner explains. "Though we were slightly faster than the other models, our low weight and compact size really set us apart."

Cuts, Inc. has also developed a sawing attachment for excavator arms that can be used with up to 1,219mm diameter blades. Skid steer compatible attachments for coring applications on land and underwater are also being developed as well. "We're contractors ourselves, so we know there'll always be jobs with different challenges," Hephner says. "But it's also important to be as efficient and profitable, which is why we want to make attachments that not only provide useful additions to our customers' tool arsenal, but also give them a lot of versatility and value as well."

www.skidsteersaw.com







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Kemroc, the manufacturer of excavator attachments, has announced a major expansion to its product range, including a complete range of twin head rotary drum cutters.

The extended range of attachments from Kemroc provides excavator operators with a choice of tools that are tailor made to meet their needs. The new models were released in March, with additions being expected to follow later in the year. These add to the new milling attachments that were introduced at bauma 2019. In addition to a range of chain cutters, cutter wheels and diamond saws are the release of attachments designed specifically for applications in demolition, tunnelling, trenching, pipeline as well as civil engineering and concrete refurbishment.

New 220kW model coming this autumn

The patented EK range of chain cutters, designed for excavators with operating weights from 1.5 to 50t, and continues to be a core product for Kemroc. In autumn 2020, the company will expand the EK range with the launch of a 220kW model designed for use on excavators with operating weights from 50t to 70t. The concept is being rounded off with the introduction of the EKT range of drum cutters that can be converted into chain cutters. Designed for use on 18t to 45t excavators, these economical and narrow attachments with rigid gear boxes have motors providing high torque and cutting force, being supplied without the chain as standard. However, a conversion kit is available, allowing them to be fitted with a cutter chain if required.

In addition to the standard EK and convertible EKT range of drum cutters with chains, Kemroc has launched a range of rotary drum cutters that have no central cutting chain. With strong, torsion and wear resistant housings and rugged gear drives, these products are designed to work in demanding conditions. Hydraulic hoses exit from the rear of the housing, and holes for water jet dust suppression are fitted as standard. The KR range is designed for use on excavators from 1t to 125t in operating weight. The robust design makes them the ideal attachment for use on short arm excavators for working in tight spaces, for example in tunnelling applications, as well as vibration free and silent demolition of reinforced concrete structures.

The new KRD range is compact and lightweight

but strong. Direct drive KRD drum cutters are available for use on excavators with operating weights from 20t to 40t. Lighter and shorter, these attachments are ideal for use on long arm excavators for demolition and shaft sinking applications. They can also be used for soil stabilisation and concrete renovation applications. Intentionally oversized bearings have been used to support the cutter drums for a long operating life.

In addition to the new range of rotary drum cutters, with or without cutter chain, Kemroc has developed the new KRL range of longitudinal drum cutters for use on excavators with operating weights from 15t to 40t. They are designed for use in civil engineering applications such as the cleaning of bored pile heads and excavating for foundations. For these attachments, Kemroc offer a wide range of cutter options which includes the option of converting the machine for grinding tree stumps. They can also be converted into an auger drive unit. Information on the new KRM range of rotation units with continuous, stepless rotation can also be found in the Kemroc product catalogue. Models are available for use on excavators from 2t to 70t operating weight. Compact, robust and easy to maintain, these rotation units expand the operating capabilities of all attachments.

A commitment to product development

Together with their individual features, every model outlined shares features common to all Kemroc products. "All of our machines are designed to be strong enough to withstand the forces they will be subjected to during normal operating conditions," says Klaus Ertmer, owner and managing director of Kemroc. "They create low levels of noise and vibration and they are energy efficient. We can guarantee this because we have been involved in rock cutting technology for more than twenty years and we combine our experience with the needs of the customer when we design and build our products. We want to make our range even better and larger. For this purpose we have recently expanded our design department and we will introduce further additions to the product range later this year."





Klingspor proud member of the VDBUM Haiger

Klingspor has been involved in developing and manufacturing high quality diamond tools since 2015. Today, they are increasingly used in construction industry as users trust their high quality diamond cutting discs that are made in Europe. In order to further expand this success within the construction industry and to participate in the exchange of experiences within the association network, Klingspor has become a member of the Association of the Construction Industry, Environment and Machine Technology e. V., VDBUM for short.

"The work of the association has always been very important to Klingspor," says Dirk Köpsel, head of sales, Western Europe. "In the past, we have benefited a lot from membership in various associations. This allows us to learn a great deal from each other, because the exchange among one another often leads to new food for thought. Last but not least, the other association members will also benefit from our wealth of experience in the field of high speed cutting discs and the safety in their use. As a founding member of the 'Organisation for the safety of abrasives (abbreviated to oSa)', we can report a lot on compliance with important safety standards. In addition, a strong association helps to gain a foothold in an industry and to establish important contacts. With the VDBUM we have joined an association that can look back on 40 years of experience and will be an important partner in many respects."

VDBUM itself is a professional interest group that represents its members in industry related matters and provides a forum for construction professionals. The membership includes both users and manufacturers of construction machinery as well as their sales and service partners. The association provides a knowledge, information and contact exchange that enables a targeted exchange of experiences. The guiding principle of the association is to represent interests, promote ideas and connect people.

Klingspor has been involved in grinding technology worldwide for over 125 years. The company's factories manufacture over 50,000 products for a wide variety of grinding applications including pads, cutting discs, grinding discs, grinding mop plates, grinding mop wheels and diamond tools. The 36 manufacturing and sales locations cover the world and with a total of over 2,800 employees enable flexible adaptation to the needs of regional markets. Worldwide consultancy services are provided by more than 460 sales representatives, engineers and highly qualified technicians.

Klingspor diamond tools are developed at the company's headquarters in Haiger, Germany and are manufactured in the Ukraine in compliance with the highest quality standards. In 2019, Klingspor exhibited for the first time at the bauma in Munich, reporting high levels of interest.

www.klingspor.de

PDi news





NEW PRODUCTS FROM CANGINI BENNE

The company Cangini Benne Srl, based in Italy, manufactures a range of earthmoving equipment attachments. With its broad range of products it is globally known, being renowned for its developments and innovations.

Cangini's core business is based on the production of quick couplers and buckets for excavators from 0.6t to 18t with different kinds of attachments to meet the demands of a growing market. The company's main focus has been in developing products to satisfy customer needs, being considered a highly reliable partner for providing solutions designed to make its customers' work more effective, safer and more productive, wherever the equipment operates in the world. Its commitment to developing its own solutions is shown by the fact that the company holds over 20 patents.

The wide range of models provide an excellent match for each excavator they are fitted to, providing the best performance for each specific class and application from 0.6t to 14t for the single force ripper, and from 1.2t to 14t for its multi force ripper. The attachments are manufactured entirely in HB400 and are suitable for soil tilting, digging, root and stone grubbing works. They can be equipped with coupling system for excavator mounting and for backhoe loaders. Thanks to the experience developed over the years, the company manufactures different models of attachments for compatibility with all types of construction machinery, which today is a fundamental part of Cangini's offering.

In 2020, Cangini acquired another Italian company which has directly contributed to an increase in the number of products offered by the Cangini Group, including compaction plates, pile drivers, compactor rollers and stump grinders. The most interesting product is for sure a pile driver that vibrates and can be also equipped with a clamp. This product, which is extremely versatile, has different functions as the vibrating function helps the driving function to be more effective with the clamp helping to better place the pile. Moreover, the compaction plate is designed to work on any terrain. It is particularly useful for compacting soil during excavation that often results following cable and pipe trenching, with the equipment including a connection to the machine to be fitted to.

Thanks to the quality process and continual development, Cangini is now an OEM for different manufacturers of construction machinery. This year's new product catalogue (which can be downloaded through the following link: https://www.canginibenne.com/en/ catalogs/) includes different attachments including new tooth rippers in two different versions: single force ripper and the multi force ripper.



The IC range of compact impact crushers comprises of the IC-100, IC-100RS, IC-110 and IC-10RS models, all specifically designed for quarrying, construction and demolition debris, reinforced concrete and asphalt recycling applications.

The IC-100 features an Ø860mm x 860mm direct drive horizontal impact chamber with variable rotor speed. The advanced electronic control system monitors, controls and regulates the speed of the vibrating grizzly feeder to maintain a consistent feed of material into the impact chamber to maintain optimal crushing capacity. This provides operators with a machine that gives high material reduction ratios and consistent grading. The crusher chamber features an independent belt tensioner allowing for rapid adjustment, whilst other key features include a hydraulic apron setting assist and hydraulic overload protection in the event that an un-crushable object enters chamber.

The IC-100RS is based upon the IC-100, and features an on board recirculating system and detachable sizing screen providing compact crushing and screening in one mobile platform. If recirculating and sizing materials is not required, the sizing screen can be detached from the machine without the need for secondary lifting equipment. The recirculating conveyor can also be utilised for stockpiling an oversize product. The third model, the IC-110, features an Ø1,034mm x 1,000mm direct drive impact chamber with variable rotor speed and hydraulic apron setting assist. For operators in recycling and demolition applications, an under pan feeder is also available. Other key features include direct drive with independent belt tensioner allowing for rapid adjustment. This model also features the electronic control system.

As with the IC-100RS, the IC-110RS provides the versatility of a compact crushing and screening plant on one mobile platform. The machine features a direct drive Ø1,034mm x 1,000mm horizontal impact

crusher with variable speed control. For applications not requiring recirculation of oversize material back to the crushing chamber or stockpiling an oversize product, the complete screening and recirculating system can be detached from the machine. The model also features a detachable 2.74m x 1.5m single deck after screen, fines and transfer conveyor for open circuit crushing. As with previous models, it also comes with an independent belt tensioner, hydraulic apron setting assist, hydraulic overload protection and recirculating conveyor. Under pan feeder and auto adjust are available as options.

"The addition of these four new models complements our existing range of mobile impact crushers and opens up new opportunities at the smaller machine sector of the market," says Alan Witherow, lead technical support and product manager at Terex Finlay. "Each of these models has been rigorously tested and proven in a diverse range of applications. The compact size, ease of transport, quick set up times and intuitive operation make each of these machines ideal for contract crushers, independent rental houses and small scale operators."



New FR 120 rotating pulveriser from Trevi Benne

Trevi Benne states that its new FR 120 rotating pulveriser is a, "concentration of technology and power". It has an opening of 1,655mm, a weight at 13,100kg and a force on the blades of 820t. The FR series, which has undergone restyling, is characterised by its aggressive shape for higher performance and resistance to stress. It has reliable swing with a double

motor option for a stronger rotation unit, new heavy duty interchangeable teeth for increased breakage efficiency and a more open jaw and frame for increased penetration efficiency. Additionally it comes with wear welded plates for higher body protection as well as jaw and frame spikes for better material selection and ground efficiency.

Looking for Comprehensive Market Information?





Does your company need extensive and accurate market data for your business plan, expansion, business acquisitions, sub-manufacturing, etc? Or do you just want to know the size of the market you are working in or want to start focusing on? Who the other players are, their revenue, profit, etc? Riverbends Research, part of Riverbends Publishing, LLC, has a long experience from monitoring various industry segments globally and offers detailed studies for the following industries:

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2019 was a record breaking year for Antraquip and its AQ line of drum cutters which are part of an attachment division with exclusive focus on mechanised rock and concrete cutting solutions.

Antraquip drum cutters continue to be embraced for not only controlled demolition or specialty projects, but also have frequently become essential equipment during larger demolition and mass rock excavation works. Designed to withstand extreme rock conditions and maximise production output, AQ drum cutters consistently are being put to work around the world thanks to Antraquip's rapidly growing dealer network. Antraquip's newly expanded US based factory is allowing for increased production capacity to meet the growing demand for what the company says are the most



powerful and reliable drum cutters on the market today. Some key features of Antraquip drum cutters include mechanical rotation - standard or hydraulic rotation (optional) - adjustable hydraulic motor displacements,

dust suppression system, and customisable drum options for various applications. Antraquip manufactures drum cutter models that can fit on excavators ranging from 1t to 100t.



Ausa launches global campaign to support its dealers during Covid-19

Ausa, which specialises in the design, manufacture and sale of compact all terrain industrial vehicles, has launched a new global communications campaign with the aim of supporting its network of dealers in the economic and health context resulting from Covid-19

Due to the current situation, Ausa wanted to give its dealers maximum exposure, as the manufacturer has nothing but praise for their tireless work, expertise and the help that they provide on a daily basis to users and the industry as a whole. Furthermore, Ausa wanted to offer a means for dealers to convey their positive message, with the goal of the campaign being to support the businesses in the industry as at difficult times like these, it is important to be united and supportive.

The 'They will keep by your side, in every challenge' campaign consists of a one minute video where Ausa reminds its users of the invaluable services that dealers provide every day. Additionally, a website has been created which contains photographs and quotes from employees from various international dealers, with messages of optimism to overcome this pandemic.

Established in 1956, Ausa is a company that specialises in the design, manufacture and sale of compact all terrain industrial vehicles (dumpers, forklifts and telescopic handlers) designed for the residential and civil construction industry and for the transportation and handling of industrial and agricultural materials. With its headquarters in Manresa (Barcelona), Ausa operates in 90 countries and has subsidiaries in Madrid, France, the United Kingdom, Germany, the US and China. Its firm commitment to innovation, providing more efficient and safer technological solutions for its customers, as well as its commitment to people, talent and sustainability, have made Ausa a leading company in its areas of operation.

IACDS 2020 annual meeting and 25th anniversary celebration postponed

At the IACDS board meeting held on 15 June it was decided to postpone this year's annual meeting and the 25th anniversary celebration. This was scheduled to take place at the Bebosa show in March, but was pushed to 24 to 25 September so as to be held in conjunction with the Scandinavian trade show Demcon in Stockholm. However, the situation with the Covid-19 pandemic makes things unsure and the IACDS board of directors

unanimously decided to cancel this year's annual event. "It is a decision that saddens us all, but we sincerely believe that it is the best and most sensible thing to do given the current circumstances," said Michael Findeis, president of IACDS.

General assembly as video conference However, the IACDS general assembly will be held as a video conference. Members of the association will soon be informed of the date and the link to connect. Additionally, it is announced that the city of Stockholm will now host Demcon 2021 from 9 to 10 September 2021. "This only makes us all more eager to meet you all again and to release an incredible IACDS Yearbook 2020," ends Findeis.

www.iacds.org



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Husqvarna introduces new 'Prime' family

Seven years ago, Husqvarna launched its first high frequency Prime system. Much has happened in the market since then and it is now time for a new Prime launch. This time, the focus has been on creating extremely robust and powerful equipment, developed for demanding workplaces.

The new Prime launch includes a new drill motor, Husqvarna DM 700 and four new power cutters consisting of Husqvarna K 7000, K 7000 Ring (356mm- and 431mm versions) and K 7000 Chain. The modular system is fully compatible with older Prime systems, making it easy for customers to upgrade and expand their machinery as their business grows. At the centre of the launch is the new water cooled power pack Husqvarna PP 70 which is enclosed in an IP65 rated aluminium body that protects the internal components from moisture, shock and impact. The electrical connections and the operator's interface are also designed to operate safely in difficult to handle and dirty conditions.

Flexible power supply and optimal core drilling

When it comes to power supply, the Husqvarna PP 70 is more than flexible. The power is adjusted depending on access, for example with three phase 200-480V or single



phase 115-240V (for maximum power, three phase power supply is required). Furthermore, it also optimises core drilling from 80mm to 600 mm as the DM 700 and is equipped with a high frequency permanent magnet motor that is totally maintenance free. The new engine control software works with the two speed gearbox to optimise the speed for drills between 80mm to 600mm in diameter. The DM 700 is water cooled and has no air intake grooves, which means that it is completely impervious to dust, moisture and dirt. Despite its high power, the machine weighs only 13.6 kg.

New Husqvarna K 7000 series with a cutting depth of 450mm

The new K 7000 series reinforces Husqvarna's position as a leading player in handheld cutting. The range

includes a 400mm cut, a ring cut in both 431mm and 356mm versions, and a chain saw with a full 450mm cutting depth. All cutters in the series are equipped with a new motor control, which contributes to a soft blade stop. In conjunction with the launch, Husqvarna is also introducing a brand new range of durable diamond chains and swords, which increases overall performance to enable better cutting depth and longer life. The new range includes both 'Gold' and 'Silver' levels to suit a wide range of applications.

Compatible with older Prime equipment

Users can easily integrate existing Prime equipment with the new Prime range by using the adapter cables available as accessories.

www.husqvarnacp.se

The 'Green Deal' to be marked at the Ecomondo 2020 exhibition in Italy

The Green Deal, which is intended to mark a new economic direction for Europe, has recently been established by Brussels. This will make the EU the world's first political entity to set the target of zero CO2 emissions (to be achieved by 2050). Additionally it will mark a 'green restart' for the European economy following the Covid-19 pandemic. Italy is ready to play a major role being eager to show how its research, innovation, new technology, green economy public policies and private investments can contribute to this new direction. To this end, the 24th Ecomondo, the 'Green Technology Expo' organised by IEG – Italian Exhibition Group - will be held from 3 to 6 November at the Rimini expo centre.

The exhibition will feature four sectors of the circular and green economy, comprising of 'Waste and Resources'; 'Water' (with the integrated water cycle), 'Bio economy and Remediation' and 'Hydrogeological Risk'. Under the scientific supervision of Professor Fabio Fava and the International Scientific Committee, Ecomondo 2020 will thus prove to be the perfect platform to focus on the European Green Deal and Italy's contribution to

it. The exhibition is thereby set to be a meeting place for scientists, business decision makers, associations and interest groups, as well as global enterprises catering for green business' requirements.

Amongst the organisations attending include The European Commission, OECD, Conai, ITA (Italian Trade Agency), ARERA, Italian Biogas Consortium, Italian Consortium of Composters, Water Alliance, National Research Council, ENEA, ISPRA, Superior Health Institute, Fise Unicircular, Fise Assoambiente, The Foundation for Sustainable Development, Utilitalia, Italy's Ministry for the Environment and Ministry of Economic Development, Confagricoltura, Federalimentare, Federchimica, Assobioplastiche and Legambiente. Additionally, there will be 'national technological clusters' showing how other countries are set to be essential supply chain and service partners in the green endeavour.

Due to the still possible effects of the coronavirus, the exhibition and public meeting areas of the exhibition have been re-planned for 'safe business' (https://www.iegexpo.it/en/safebusiness) to provide maximum safety

for exhibitors, visitors and staff. The organisers of Ecomondo have in the meantime implemented 'distanced' communication channels via digital connections such as 'Connect, Talk and Share' which began in May.

Whether the subject is continental or national policies, utilities or sustainable technologies, Ecomondo 2020 will provide information and networking opportunities for the latest in green issues and developments.



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Concrete cutters and corers need water

John Ford Concreting was frustrated with not being able to get a constant pressure water supply for its concrete cutting services when they arrived on site. In order to help solve the problem, the company Makinex introduced John Ford to its constant pressure portable water supply unit, the 'Hose2Go' which solved this frustration.

John and his team sometimes found that when they arrived on site there was more often than not no access to a reliable water supply for their concrete cutting tools. Without water, they couldn't get on with the job of cutting concrete and this meant they wasted a lot of time trying to find a solution. It was decided to find a portable

constant pressure water supply unit that provided water where and when it was needed.

While researching the options available, John and his team came across the Makinex Hose2Go, a portable water supply unit that provides up to 30min of constant pressure water supply for concrete cutting and coring tools. John Ford states; "In addition to ensuring my team are never without water for their tools, the Hose2Go has reduced sludge entering the environment due to the user's ability to control the water pressure from the Hose2Go. The Hose2Go is great for its ability to mitigate silica dust which ensures I have another way of looking after the wellbeing of my team."

concrete cutting and/or core drilling.

SOME OF THE LATEST SMALL AND MEDIUM EXCAVATORS

It is not only demolition robots that are suitable for working in confined areas. Here we look at some of the latest developments in mini and midi excavators.

CAT'S 'NEXT GENERATION'

The new Cat 360 CR Next Generation mini hydraulic excavator marks Caterpillar's entry in the 6t class offering. It shares a similar control layout and common components with the full line of Cat Next Generation mini excavators to simplify training, provide quick adaptation for operation and lower owning/operating costs. With its 'long stick' option, the 306 CR delivers a maximum dig depth of 4,110mm and 7,175kg maximum operating weight when equipped with the sealed and pressurised cab (a canopy alternative to the

pressurised cab will be available in 2020). Built with a swing boom, this mini excavator's compact radius design provides a low, 1,475mm tail swing with counterweight for working close to obstructions.

The 306 CR delivers lift performance of up to 3,555 kg at a 3m radius, as well as enhanced uphill swing torque and increased cycle times. The fuel saving, load sensing hydraulic system with an electronically controlled variable displacement piston pump generates 151l/min hydraulic oil flow. According to Caterpillar, it offers hydraulic capacity for increased travel performance and higher digging forces than competitive units. High flow rate of 90l/min to the auxiliary circuit enables operation of more demanding hydromechanical attachments. Complete with quick disconnect lines, the standard auxiliary hydraulic system provides one-way, two-way and continuous flow. The Cat C2.4 turbo diesel engine rated at 41.7kW powers the new 306 CR mini excavator and meets EU Stage V emission standards. It features a power dense design and delivers consistent performance through a wide speed range. Automatic engine idle and shutdown features help to save on fuel consumption.

The design emphasises operator comfort, convenience and safety with its sealed and pressurised cabin



dial' for simple navigation and standard Bluetooth capability. The colour monitor gives the operator critical operating details such as fuel, coolant temperature and hour meter. The operator can switch from conventional lever/foot pedal steering controls to the stick steer system, whereas the intuitive pattern changer allows operators to select their preferred joystick movement for control. Straight blade, angled blade and extra tool carrier (XTC) configurations expand the flexibility of the 306 CR. Featuring ample travel, above and below grade operation and float function, the blade handles loose material in backfilling and grading applications. Delivering the precision required when digging around utilities, front shovel operation can be accomplished with both pin on and coupler mounted buckets.

The 306 CR shares common components with models in the Cat mini excavator line to lower repair costs, decrease service time and reduce repair parts inventory. Recessed to protect from damage in the field, robust flat side panels further offer long service life and quick replacement to lower owning and operating costs. Ground level access to maintenance checkpoints provides convenient access while enhancing worker safety. What are said to be industry leading grease intervals help to shorten the daily service routine, whilst extended filter service life means the 306 CR spends less time in the service shop for routine maintenance.

Another new product from Caterpillar is the 'TiltRotate System' (TRS) for Cat Next Generation mini excavators. The new TRS6 and TRS8 models allow attached work tools (including buckets, forks, grapples, brooms and compactors) to rotate 360° and tilt 40° side to side. This enables the machine to reach more work areas from a single position while manoeuvring tools over, under, and around obstructions when excavating, grading ditches, sorting recycled materials, or placing pipes. The TRS increases the mini excavator's versatility and are available in various configurations to match the application. TRS models have two interfaces: a top interface that connects the TRS to the carrier machine and a bottom interface that connects various work tools to the TRS. The four configurations for the TRS6 allow the user to choose between an 'S-Type' hydraulic coupler or 'pin on top' interface, and, whether the TRS is equipped with an integral grapple (which can be used with a work tool attached). All TRS6 models use an S-Type hydraulic coupler for the bottom interface. The four configurations for the model TRS8 allow selecting an S-Type coupler for both the top and bottom interfaces, or, a pin on top interface and pin grabber coupler bottom interface, and whether the TRS has an integral grapple. The pin on/pin grabber configuration is not available with the integral grapple.

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



mechanism enables digging at any angle required. A single grease point on TRS8 models provides grease to all joints requiring lubrication. The double acting tilt cylinder has integrated load hold valves that sustain holding pressures and prevent cylinder movement underload. The cylinder also features hardened pistons and maintenance free bearings and its scratch resistant, rust proof surfaces, require no maintenance. An integrated, dealer installed field control kit, which includes specially designed joysticks, suits all boom and stick combinations providing intuitive control of the TRS and integral grapple. The TRS monitor informs the operator of the attachment's position, and an engagement/disengagement sensor assures that work tools are secured via a safety locking mechanism with an indicator. A 'bucket shake' feature for TRS8 models, activated by a joystick button, facilitates even spreading of materials. TRS6 models are designed for the Cat 306 CR mini excavator, whilst the TRS8 models using the S-Type coupler for both top and bottom interfaces, fit models 307.5, 308, 308.5, 309 and 310. One of the two remaining TRS8 models, using the pin on/pin grabber interfaces, is designed for the 307.5, 308, 308.5 and 309, with the other being designed for the 310.

CRAWLER SKID EXCAVATORS FROM MECALAC

Mecalac, designs, manufactures and distributes compact construction equipment for urban environments. It has now introduced an innovative line of crawler skid excavators, the newly updated MCR Series, which comprises of three models: 6MCR, 8MCR and 10MCR, respectively 6t, 8t and 10t, all providing speed, productivity and compact operation. The MCR excavators can reach speeds of up to 10km/h, with the reduction in on site traveling times (when compared to other excavators) translating into increased productivity and fleet optimisation as well as a better utilisation rate. If there is a need to travel a long distance, or simply if the operator prefers, it can be driven with the left joystick. MCR excavators can also work efficiently with full size loader buckets. For instance, the 8MCR maximum bucket capacity equals 0.53m3, the same bucket size

as a 12t excavator. The 10MCR can handle a 0.75m³ bucket which results in +77%m³ material moved at once when compared to traditional excavators. 'Plus loader' buckets allow the spreading of material or fine grade ground level in one pass only, without the need to swing or move the boom.

The 8MCR features a total swing radius of 2,698mm; this equals the total radius of a typical 2t excavator, with all MCR excavators offer a true 360° compact radius, not only to the rear 1,254mm, but also to the front 1,444mm. Whichever option chosen, a spacious cab, with generous legroom and optimum visibility is provided. An MCR excavator can perform quick and precise trench digging, close to a wall or parallel to the machine, lift loads, lay pallets over an obstacle or below grade, and bring solutions to complex jobsite conditions and logistics. The patented Mecalac boom folds 130° backwards to offer stability, acting as a natural counterweight, with MCR excavators being able to lift 40% of their own weight. They are said to be the only compact units with the boom mounted at the side of the cab, not at the front. In addition, the kinematics enables operation close to the machine while still offering extensive reach.

The 6MCR model is available with two piece boom, with this configuration translating into the optimum solution for basic digging/truck loading applications. Thanks to the main selector, the operator can control and use the excavator like a loader. The MCR Series excavators are able to use skid and loader buckets in the reversed position which enables the pushing and loading of larger material volumes. The bucket is supported against the blade so that the force of the thrust is transmitted directly from the undercarriage to the bucket. MCR excavators boast a number of fuel saving features including automatic low idle, automatic engine shutdown or a fan on demand. There are other features available for optimising machine utilisation. Mecalac states that having a machine that can carry out the work of two different products - a traditional skid steer and a compact excavator - enables the replacement of two machines with just one such machine on the jobsite.

PDi site report



Epiroc CB 5500

The Oettinger Group, a long standing customer of Epiroc Deutschland GmbH, tested the world's second prototype of the CB 5500 concrete demoli-

The Oettinger Group required a powerful attachment for the partial demolition of a former public administration building with integrated air raid shelter in Karlsruhe, Germany. The buildings comprised 18,000 m³ of enclosed space and 4,000t of reinforced concrete material. Initially gutting and remediation work was carried out with the aid of a MG 5000 'Multi Grapple'. This was followed by the demolition of a connecting bridge and the public building, including the heavily reinforced air raid shelter. CC 5000 demolition cutters were used for the above ground demolition. The walls had been pre-slit with a HB 4700 hydraulic hammer and were finally cut out with the new CB 5500 Concrete Buster and prepared for pulverisation.

Experienced machine operator Marius Mayer valued the power and precision of the new Epiroc development: "The CB 5500 is designed for heavy duty assignments and is ideally suited to breaking the structures of thick reinforced concrete walls, trusses, beams and foundations. The tip penetrates the concrete vigorously and 'bursts' it from inside. Areas of application include industrial demolition or inner city demolition where vibration is to be avoided. The benefits are particularly evident in the demolition of foundations. Because of its construction and its huge jaw width, the CB 5500 enables me to crack even foundations made of the hardest concrete. The work cycles are fast and the capacity of the shears is outstanding."

The 'Concrete Buster' product range has recently been extended to include the CB 5500 and CB 7500 and now includes six models with operating weights from 320kg to 7,400kg for excavators ranging from 2t to 85t. They have been specially developed for heavy foundation work and are particularly suitable for demolition with long front excavators and in areas where a hydraulic hammer cannot be used.

The CB 5500 is designed for carriers ranging from 50t to 65t, and has a jaw width of 1,600mm and depth is 1,060mm. It features impressive opening and closing times of 4.1 and 3.5 seconds respectively, as well as a cutting force of 150t at the jaw tip. Short working cycles are made possible by the built-in rapid motion valve. These performance parameters, and the associated increased efficiency, were decisive for Oettinger, with the concrete demolition cutter being particularly impressive in test operation and therefore immediately adopted by the Oettinger Group. Managing director Robert Oettinger summarises: "With the CB 5500 we have added a very good machine to our fleet, a machine that is outstanding for its size."



Fast trenching through gypsum deposits

While excavating a trench at Steinsfeld-Endsee in Franconia (Germany), the contractor Leonhard Weiss had to work through deposits of gypsum. A Kemroc EK140_1000 chain cutter was used for installing a new waste water drainage system, enabling the project to be completed in time and within budget.

The municipality of Steinsfeld in central Franconia, Germany are making extensive renovations to its infrastructure. As part of the renovation work along the main road in the suburb of Endsee, it was decided to replace the existing mixed water sewer with a rainwater drain and a new, separate, waste water sewer. The laying of the DN200 and DN250 specification pipes was entrusted to contractor Leonhard Weiss which had to excavate through difficult ground conditions. This consisted of loose soils containing in places deposits of gypsum down to depths of 4.5m. Under these conditions, the estimated performance for excavating the trench with a conventional, double head drum cutter attachment on a hydraulic excavator didn't appear to meet the levels required. However, the site foreman, Rainer Walch had previous experience of using a chain cutter while excavating trenches. For this reason the site manager, Martin Fuchs, decided to use a chain cutter on this project.

Straight forward digging

A patented Kemroc chain cutter was used, with this being a drum cutter with a chain fitted with cutting tools that runs between the two drums at each side of the cutter head. The chain cuts the material away from the space between the two cutter drums. With a conventional drum cutter, this can only be achieved by slewing the drum cutter with the excavator while it is cutting, or the material is removed at a later stage with a different excavator attachment. Alternatively, the chain cutter can excavate a trench without the need for slewing while producing a profile with straight, vertical side walls to an exact width.

Excavating trenches to an exact width without over break saves time and money as no energy or time is wasted in breaking unwanted material, cleaning extra material out of the trench, or backfilling a trench that is larger than necessary. For Martin Fuchs there was another advantage in using the chain cutter; "Slewing a standard drum cutter side to side between the trench supports would have been difficult and potentially dangerous. Overall, using the chain cutter proved to be better for both the operator and the equipment."

Quick and easy

At the beginning of December 2019, trenching through ground containing irregular outcrops of gypsum was in full swing. The estimated time for completion of the trench using the EK 140_1000 chain cutter (1m cutting width) mounted on a 32t excavator was another two weeks. In an interim report on the performance of the chain cutter, Martin Fuchs commented: "Because the ground conditions are so variable, it is impossible to give accurate production figures for the chain cutter attachment and excavator combination. However, the simplified operating procedure requiring no slewing of the excavator, gave us a noticeable time advantage. At a section of the trench where we were going through gypsum to a depth of 4.5m, we achieved an advance of 5m per day which was definitely 20% faster than we would have achieved with a traditional drum cutter."

On completion of the section, the contractor was due to continue trenching in the side streets. Here gypsum deposits were also encountered along the proposed route for the trenches. Regarding completing works in May 2020, Martin Fuchs commented, "In those critical locations we have also been continuing using the chain cutter. So far we have been carrying out our work with the fine results we had expected."





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PDi site report



Low noise and zero emissions of excavator

THE KEY TO ARCHAEOLOGICAL DIG

A new Bobcat E10e mini excavator has been utilised for its low noise and zero emissions on a prestigious archaeological dig, exploring the ruins of a castle in the town of Ricany near Prague in the Czech Republic.

After the site was evaluated by archaeologists, the operator of the battery powered E10e Bobcat excavator was faced with a clear goal in helping to find the castle's moat and any other historically important artefacts. This involved an in-depth exploration in the garden of one of the buildings adjoining the castle ruins. The task was to dig a main reconnaissance trench with a length of 57m and another 16m long verification trench.

The work was carried out by an experienced Bobcat machine demonstrator, Tomáš Mrkvička, who said: "These very special excavations require the utmost caution. The soil must be removed literally centimetre by centimetre. For actions where it is important not to damage what could possibly be in the excavation, the operator's feel and touch are irreplaceable." To ensure that any archaeological excavations were not damaged, the teeth were removed from the bucket at the beginning. Fortunately, the surface of the area being surveyed was not too hard, so it allowed this fine technique to work.

It turned out that the archaeologists were right to be cautious. After only a few hours of work, the E10e uncovered the point where the soil mixed with the original masonry of the castle. Excavating was immediately stopped and experts from the local museum were called in to investigate the site further and they were surprised to find that the E10e had in fact encountered the remains of an old cellar. "The cellar may be up to 500 years old," said Jan Boukal, a historian from the Ricany Museum. It was decided that after discovering the cellar, archaeologists would dig only by hand in this area. With the cellar vault located only tens of centimetres below the surface, there was a real danger of it collapsing.

The excavator was then used to dig along pre marked lines elsewhere on the site. "The use of a 1t excavator in combination with an experienced operator proved to be very far sighted due to the discovery of the ancient cellar," said Petr Frank from the Municipal Office in Ricany. "We are pleased that we were the first in the Czech Republic to have a chance to try a zero emission, battery powered excavator in Ricany. In addition, the ability to communicate seamlessly with experts during excavations due to the low machine noise was extremely useful and efficient. I assume that we will see electric machines more and more often in the centres of towns and villages in the future."





Bobcat excavators help in building fibre optic network in Belgium

Bobcat Center Antwerpen, one of the authorised largest of Belgium's mobile telecommunications

supply of a large number of excavators to help the Bobcat Center Antwerpen branch in Kontich and from a new location in Herenthout. Rudi super-fast internet almost everywhere in Belgium

reasons. The undercarriage, the width of which can be retracted hydraulically to 98cm, ensures through narrow gates and openings before being expanded again to a larger width for excellent has two driving speeds. This allows the machine realizing significant productivity benefits. Each are equipped with an air suspension seat. Together

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New sorting grapples and additions to its 'Multisystem' and 'Combi Crusher' line are but a few of the new products from Italian manufacturer Mantovanibenne. Some of these were used during work on the expansion of the A3 motorway in Germany.

antovanibenne, part of the MBI Group, specialises in designing, manufacturing and marketing attachments for the construction, demolition, recycling and earth moving industries. Founded in 1963 in Mirandola, Italy by Alberto Mantovani, the company is now led by his children, Roberta Mantovani, president, and Paolo Mantovani, vice president and CEO. Since the early 1990s, when it launched its first demolition attachments, the MBI demolition line has become more and more important for the company, now being its core business. Today, the MBI product range includes hydraulic attachments for different jobs comprising of concrete crushers, metal shears, pulverisers, grapples and many more.

The product lines are divided into demolition, handling and selection, 'bucket world' and quick couplers. The equipment has been created with hydraulic and mechanical rotation, using materials of high quality and resistance. With kits and interchangeable parts, 2019 represents the end of a three year cycle of innovation and growth for the MBI Group. 2020 is seen as the year in which the group is able to continue to offer high quality products and, in their own words, "Confirm ourselves as one of the pioneers in the sector and a reference point."

Two new models in the Combi Crusher line

This line of concrete crushers with asymmetrical jaws and shear shaped blades is now complete, with the Combi Crusher design combining high penetration teeth for

concrete cracking and shear jaws for metal cutting. The new 'Combined Cutter' line is a hybrid product that incorporates characteristics of the MBI 'Eagle Shears' and 'Concrete Crusher'. The Combi Crusher features two oversize cylinders and a central twin pin solution, which enables larger opening and a higher crushing force. The asymmetrical and specifically shaped jaws have been designed to cut steel like dedicated shears and crush concrete at the same time. The body design provides penetration of concrete and cutting of metal structures, while interchangeable blades and teeth fa-

cilitate maintenance. On the other side of the unit there are double jaws with two interchangeable teeth.

This year, two additional models will be released in the line: the CC65 and the CC90. With a weight of 6.65t and 9.5t respectively, they are suitable for excavators from 60t to 95t, with a cutting force of 423t for the CC65 and 494t for the CC90. Furthermore, a 'Bibooster' system multiplies performances by increasing working pressure and speed while remaining protected inside the cylinder rod.

Multisystem, the most dynamic machine in the range

The MS multisystem line has been upgraded with new jaw sets, including interchangeable parts and new cylinders. The SGR grapple line introduces a new hydraulic system, specifically developed to perform heavy duty tasks such as demolition and rock handling. Many MBI attachments are now available with 'quick oil' connection systems directly from the factory, enabling higher productivity levels by reducing tool changing times.







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PDi reports







Other developments aimed at demolition contractors is the redesign of the MS demolition multisystem line with five new models, with three of them replacing old models and two extending the range. Thanks to interchangeable jaw kits, the MS can be transformed into different tools, which means the customer does not need to buy several different attachments. The new MS series is characterised by an increase in performance and by the introduction of wear parts that can be substituted. Part of the Multisystem family is the MS140, heir of the MS130, and is said to be a 'real demolition titan' weighing more than 14t and features a new hydraulic system that increases working speed by 20%. In addition, the machine body has been reinforced and the jaw kits have been updated to maximise concrete penetration.

Fourth generation of SGR sorting grapples

The SGR was initially designed to be a demolition grapple, which means that its structure and hydraulic system were developed to perform heavy duty jobs and be resistant to extreme stress. The double rotation motor and double cylinder featured on the biggest model, together with the reinforced structure, makes the difference when SGR faces tough working conditions. The SGR line has been under intensive development work during the last year and is now ready to be presented with a new hydraulic system. New cylinders, distributor, cross 'releave' valves and hoses increase reliability - a necessity for heavy duty tasks.

Primary and secondary demolition with RP-IT rotating pulveriser

The MBI rotating pulveriser RP-IT, with its sturdy

rotation and particular jaw design, allows it to perform both primary and secondary demolition tasks. The new RP16-IT rotating pulveriser has interchangeable wear parts and extends the rotating pulveriser range whilst featuring some of the fundamental characteristics of Mantovanibenne pulverisers. The inverted cylinder maximises rod protection and durability, while the new jaw plate increases wear resistance. In addition, the new plate comprises of two parts and allows the substitution of the worn part only, leading to operational savings.

Six lane expansion of the A3 motorway in Germany

A project that has seen Mantovanibenne equipment in operation is the six lane expansion of the A3 motorway in Regensburg, Germany. 20 men, 18h and 'the best of MBI demolition equipment' was necessary to demolish the southern highway bridge at Regensburg, which was almost 41m long and 22m wide. The A3 motorway is a major artery for Germany, connecting the north of Austria with the south of the Netherlands. In order to meet deadlines in so as to reopen the road to traffic, it was necessary to use many vehicles equipped with large scale demolition equipment working non-stop. Four MBI machines were allocated over the entire area of the bridge, undertaking the primary and secondary demolition necessary for the disposal of approximately 1,900t of material per day.

The 8,250kg crusher CR80R and the brand new 9,500kg Combi Crusher CC90R were used for the primary demolition of reinforced concrete. The CR80R is equipped with hydraulic rotation with a double fifth wheel for 360° positioning and a speed valve capable of regenerating the oil used during the closing of the two

cylinders to increase the working speed. This demolition grapple, with a central double pivot system that increases the opening and the force transferred to the tips, is suitable for primary demolition of reinforced concrete. The CC design with combined demolition pliers, is unique in that it combines penetrating and interchangeable teeth for breaking concrete and jaws for cutting metals. This model was fundamental for dealing with the reinforcement as it incorporates shear blades which, together with the cutting guides, allow effective cutting of metal materials.

The CC90R, which is the latest addition to the MBI range, weighs 9.5t, making it suitable for excavators from 75t to 95t and has a maximum claw opening of 1,750mm. The CC65R, is a 6.65t Combi Crusher, which maintains the same technical characteristics as its larger sibling including continuous hydraulic rotation, speed valve and interchangeable parts. The CR range is available in 12 models from 240kg up to 12t, while the CC range is available in four models: CC25, CC35, CC65 and CC90.

The secondary demolition of the German road was equally important requiring quick processing and the disposal of 19,000kg of waste material to ensure the reopening of the highway on schedule. The rotating crusher with interchangeable toothed plates, the 5.2t RP50-IT, is equipped with total rotation and a patented speed valve. It has two types of interchangeable plate pairs, upper and lower, to modulate productivity according to requirements. The crusher grinds the concrete, reducing the volume of the material on the ground, pulverising and expelling it thanks to the crushing surface designed ad hoc. The RP-IT range is available in seven models ranging from 1.1t to 8.2t.

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CONCRETE SAWING EQUIPMENT

As the world slowly recovers from the coronavirus meltdown, businesses are licking their wounds and assessing the damage. Nobody seems to have emerged out of the crisis unscathed. As far as the concrete sawing industry is concerned, the three month lockdown has impacted heavily on the well-being of both suppliers and contractors. Demcon and BeBoSa - the industry's most significant trade shows - have been postponed until 2021. Let us just hope, though, that no permanent damage has been done and the market will get back to normal sooner rather than later. In the meantime, PDi's Andrei Bushmarin recaps the latest news gleaned from some leading industry players.



CUTS INC. BREAKS NEW GROUND IN CONCRETE AND ASPHALT SAWING

Cuts Inc. is a family run specialist contractor and manufacturer of bespoke sawing and drilling equipment, based out of Knoxville, Tennessee. It was established 16 years ago by Matt J. Hephner, a professional concrete cutter with a track record of 36 years. Some 10 years ago, Matt took on a job that required making multiple cuts on a 380mm thick sloped concrete surface as part of a big manufacturing plant's shutdown. As conventional floor saws didn't cut it, so to speak, wall sawing seemed to

be the only viable method. The problem, however, was that those multiple cuts had to be done within a very short period of time. That would mean adding five more crews and another five wall saws to complete the task, which rendered the project economically unfeasible. But, rather than giving up on it, Matt and his team put their heads together and came up with a skid steer based cutting tool that fully eliminated the set up time required by the wall sawing method. The mobile cutting system proved a huge success, allowing Cuts Inc. to finish the job ahead of schedule, and following that breakthrough,

the company has developed other sawing and coring attachments for the skid steer platform.

Now available in three models – the SS2600, the SS3600, and the SS4200 – Cuts Inc. skid steer saws accommodate diamond blades to cut up to 460mm deep, while custom builds can go as deep as 510mm. Most customers use the machines for cutting asphalt and concrete roads and highways, but they are also applicable to cutting stone, concrete panels, sewer and drainage pipes, fibreglass panels and aluminium. According to Matt Hephner, the company gets inquiries for skid steer saws on a daily basis from every corner of the world. For example, Avionics Limited, an Australia based airfield lighting specialist, has used a Cuts Inc. machine when carrying out an upgrade to Melbourne Airport's lighting system. The job involved 3,000 light fitting locations and nearly 35,000m of slot cutting, ranging in size from 15mm x 30mm to 35mm x 30mm. Avionics chose Cuts Inc. on the basis of the company's contracting background. "Matt and his men understand the complexities of slot cutting and have been able to incorporate this understanding into their design," explains Avionics construction manager Shane Webb.



PDi special feature





TYROLIT BEEFS UP WIRE SAWING LINE UP

The Tyrol based heavy hitter has extended its wire sawing range with the addition of the WCE18 model suited for such demanding applications as the controlled demolition of bridges, industrial stacks and foundations. Powered by an 18kW high frequency water cooled motor, the new wire saw comes with outsized 15m wire storage. Thanks to the large drive wheel (445mm in diameter), the WCE18 boasts high initial torque and slip free power transmission. Other highlights include infinitely variable cutting speeds from 0 to 25m/s, adjustable and a control board with intuitive interface.

www.tyrolit.com

these hand held machines into a fully blown wall sawing system at a fraction of the cost. According to the Danish manufacturer, the tried and tested approach involves making a pre-cut with the HCS18 to a depth of 187mm and then finish the job with the HRS400 ring saw reaching to a depth of 300mm. The lightweight (only 24kg) guide rail comes with an adaptor that allows users to switch quickly between different machines. Fatigue free operation is another major benefit of the SawEZ solution. Measuring 2m long as standard, the guide rail can be extended to any desired length by adding 1m sections to it.

HILTI GOES ELECTRIC

www.hycon.dk

HYCON TAKES THE WEIGHT OFF THE OPERATOR'S SHOULDERS

Hycon, a Denmark based manufacturer of hydraulic hand held tools for cutting and demolition applications, has added the 'SawEZ' guide rail to its portfolio. Fully compatible with Hycon's HCS16 and HCS18 cut off saws and HRS400 ring saw, the SawEZ effectively turns

Hilti, a Lichtenstein based trendsetter in concrete coring and sawing solutions for over 20 years, currently offers two flagship electric models - the DST 10-CA and the DST 20-CA - to its customers. Powered by a 10kW motor, the smaller DST 10-CA comes very handy in confined and limited access areas. Thanks to

a traction control system, the saw boasts a power output of 8kW and is capable of cutting to a depth of 380mm. A 16A plug makes it a versatile tool that can be deployed on any construction site around the world. The more powerful DST 20-CA is designed for tough applications such as sawing through heavily reinforced walls and floors. Featuring an integrated convertor box and wireless remote control, the wall saw is compact and easy to transport and set up. Drawing power from an industry standard 32A plug, it reaches as far as 730mm deep. Both models feature Hilti's proven 'Cut Assist Technology' allowing for fully automated cutting.

The manufacturer's wire sawing range includes three off the shelf electric models - the DSW 1005-E, the DS WS15 and the DSW 3018-E - plus a host of bespoke solutions. On both standard and tailor made machines, the tensioning of the diamond wire is optimised via a pneumatic system. Driven by a 10kW motor, the compact sized DSW 1005-E wire saw is a first choice for miscellaneous small jobs. The midrange DS WS15 is a true all-rounder suitable for various wire sawing tasks. When output and performance become paramount, Hilti recommends using the

DSW 3018-E model. Powered by two 15kW motors, the heavy duty DSW 3018-E delivers strong performance when the dismantling of concrete structures to short deadlines is required. An ample choice of wire sawing accessories is available from the manufacturer, along with dust and slurry management solutions.

www.hilti.com

EURODIMA PRIORITISES SERVO ENGINE TECHNOLOGY

Austria based EDT Eurodima has been manufacturing concrete sawing and drilling machinery for over 15 years now. Last year, the Austrian manufacturer used bauma to unveil its latest 'Servo Power' WS20E and WS20H wall saws. Powered by a 23kW water cooled servo engine, the new models ensure a maximum cutting depth of 725mm with up to Ø1,600mm diamond blades. Other features include a two speed gearbox providing high torque even at low cutting speeds, compact ergonomic design, a removable blade guard, simple adjustment of the guide rollers and low maintenance costs (with service intervals only required every 250h). Johannes Radauer, head of sales and marketing at Eurodima, reports a very positive reaction from the market to the servo technology: "Sales of the servo engine systems have been steadily growing over the past two years, allowing us to continuously expand the global dealer network."

www.eurodima.com







Despite a cancelled customer event because of Covid-19, Aquajet managed to gather over 100 customers, distributors and industry journalists from all corners of the world for an interactive webinar for the launch of new Ecosilence 3.0.

ach spring, Aquajet gathers distributors, customers, media contacts, etc. for 'product days' to introduce new developments. This year's event was cancelled due to the coronavirus pandemic but that didn't stop Aquajet from reaching out to share its news. "Of course the pandemic has affected us just like it has affected everyone else. But we actually have production going in full speed, and most of our customers report that they are also keeping the production going. We hope that it continues and that we can keep working. Furthermore, we have many new things coming up and we can't keep quiet about that," says Aquajet Systems CEO Roger Simonsson. To this end, the company invited its contacts to a virtual product meeting on 27 May with around 110 people attending the one hour event. This began with Roger Simonsson greeting participants and announcing the new concept Ecosilence 3.0, which among other things encompasses the new pump module Ecosilence 700.

Quieter and more cost efficient

The webinar saw export sales representative Patrik Andersson introduce the Ecosilence 700, whilst development executive Ronnie Hilmersson presented the technical features and benefits. In short, the new Ecosilence 3.0 offers drastically decreased noise levels and reduced

fuel consumption, whilst providing a more compact work solution in narrow and sensitive environments in terms of noise and emissions. It features integrated, automatic start/stop technology which improves fuel consumption, saving as much as 25l of fuel per day for a decreased carbon footprint. The redesigned Ecosilence is also more compact, being a free standing system that can fit inside a 6m delivery container. The new unit also has a dramatically improved pump pressure of up to 3,000bar providing ample power for hydrodemolition of concrete bridges, roadways, quays, etc.

"Our original Ecosilence reached the low noise levels that our customers needed, but couldn't match the power in our standard power pack, which was necessary for certain applications," says Roger Simonsson. "We knew we could do better, so our engineers went back to the drawing table to give the best of both worlds – power and low noise levels. During development, we were able to integrate the latest automatic technology and simultaneously decrease the total length of the container with almost 1m."

Ecosilence 3.0 has an environmentally friendly, low emission motor and high pressure pump for powering Aquajet's range of 'Aqua Cutter' robots and can be used in environments of up to 45°C. The ski mounted unit uses automatic start/stop technology, like the one found

in many modern cars, which temporarily shuts the motor off when not in use in order to decrease idle running by up to 50%. The motor starts automatically when work is resumed. This way, the Ecosilence saves money and decreases emission significantly. The integrated motor and high pressure pump are paired with a modern liquid to air heat exchanger for silent and efficient use.

The new, ski mounted motor and pump are isolated and heat regulated in an efficiently sealed compartment at the front of the container so as to reduce noise when working in noise sensitive environments. This innovative design also prevents trash and dusty outdoors air from getting into the motor chamber when in use meaning that it can be used in tough environments, such as work on shores or in cold weather, without negative effects. It is also easy to transport and install as it measures 6.1m x 2.4m x 2.6m while maintaining innovative, sound absorbing design functions. These include isolated walls and doors as well as seals on all doors and hatches. Despite its compact length, the container still offers plenty of storage space for hydrodemolition robots, accessories and equipment, as well as options for customising the work area.

Ecosilence 3.0 is available in several pressure and flow combinations, which makes it possible for operators to scale the equipment based on their specific needs. To

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Development executive Ronnie Hilmerssson describes the advantages of Aquajet Systems' new Ecosilence 3.0 at the company's webinar at the end of May.



Roger Simonsson, CEO said the company is going in 'full speed' despite the coronavirus pandemic.



The new control panel on the Ecosilence 3.0.



Despite a more compact size, the container offers a lot of space.

help contractors choose the ideal unit, a new online tool, the Aquajet 'Configurator', has been introduced which leads the operators through a series of standard functions and optional functions for an entirely customised Ecosilence 3.0.

Concise presentation

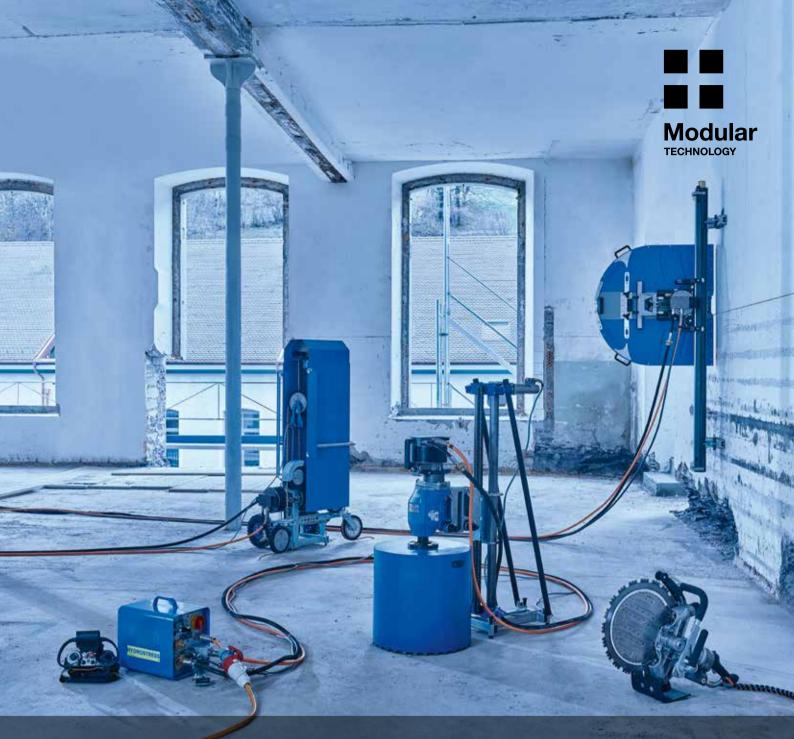
The entire product presentation was filmed with several cameras so that the webinar attendees could follow and see all details of the new Ecosilence thoroughly on their computer screens. The presentation was concluded with a questions and answers session where a subject raised was that the system weighs about 11t, and that the standard version reaches a noise level of 73dBA, with the professional version having a noise level at 65dBA only. Roger Simonsson stated that Aquajet sees potential for the system in the European and North American markets where its service friendly construction, featuring easy access to all the different parts of the system, with both the robot and the tower being able to be fitted inside the container, will be readily appreciated.

As to the question of how much the system costs, customers were directed to the website where they could build their own power pack. Pricing is bespoke as every container is customisable depending on the application it will be used for. Estimated delivery time is 10 weeks, excluding shipping.

The entire webinar can be viewed at Professional Demolition International's digital channel, PDi TV by following the link: pdworld.com/videos/view/newsaquajet-system-s-ecosilence-3-0

www.aquajet.se





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WALLAND WIRE SAW SYSTEMS FROM HILTI

ore than 20 years ago, Hilti launched the first electric wall saw with 5kW of power. This was the start of a journey that saw Hilti play its part in shaping the future and progression of wall sawing, driven by weight, ease of connectivity and increased productivity. In order to increase productivity even more, Hilti created and introduced its industry renowned, 'Cut Assist Technology' that negated the need for a heavy separate convertor box (E-box). In the near future additional tools will be added to include advanced Cut Assist Technology and wireless remote control.

10kW and 20kW wall saw range and diamond blades

The 10kW wall saw, equipped with Cut Assist Technology, provides excellent mobility, with the DST 10-CA being the ideal solution as far as weight and operating in space reduced environments are concerned. Due to its efficiency, it transfers 8kW as a power output thanks to the Hilti 'Traction Control' system, resulting in a cutting depth capability of up

to 380mm. Connectivity to a 16A plug

makes it a highly versatile tool that can be deployed on any construction site around the world.

The 20kW wall saw, also equipped with Cut Assist Technology, provides great productivity with 30% more power and three times the starting torque that results in the DST 20-CA providing excellent performance. With the only integrated convertor box in its size class, the machine is easy to transport, avoids long set up times and has wireless remote control. The latter indicates all the cutting parameters providing ease of use for the operator. Its draws its power from an industry standard 32A plug, and coupled with a 60% reduction in weight compared to its predecessor, the machine can cut to a depth of 730mm.

The Hilti 'Equidist' diamond saw blade line has been purpose designed to work with the company's wall saws. The technology used ensures optimal cutting performance using precise distribution of the diamonds in the blade. Combined with Hilti's precision tensioned blade, it provides the extra performance required on any job site.

Three electric standard wire sawing systems

Originally, wire sawing was proposed as a solution for cutting natural stone for more refined quality compared to blasting or breaking half a century ago. Now wire sawing is appreciated to be an ideal solution for cutting complex and multiple structures in any material, no matter where it is cut. Over the decades Hilti has developed what it says is the most extensive range in the world which now includes both standard and bespoke wire solutions, providing complete synergy to its diamond tools. Hilti's current off the shelf solutions





electric versions, 10kW, 15kW and 30kW, plus a range of bespoke solutions. On both standard and bespoke solutions, the tensioning of the diamond wire is done through a pneumatic system (opposed to a hydraulic system, the yield is virtually non-existent) ensuring optimal tension.

The 10kW (DSW 1005-E) wire saw gives great versatility and convenience, allowing the user to undertake small jobs on miscellaneous small jobsites, with its easy set-up making it convenient for these kinds of applications. The 15kW (DS WS15) wire saw provides users with the opportunity to perform at a consistently high level on demanding controlled demolition job sites. Its ease of set-up and operations allows operators to gain maximum efficiency and includes its own compact wire storage system. When output and performance become vital on a job site the 30kW (DSW 3018-E) wire saw offers a unique machine solution providing high levels of productivity while remaining compact. This 'top of the range' standard wire machine is able to cut heavily reinforced concrete and steel with what Hilti says is unbeatable performance.

Accessories in addition to standard range

Hilti's partners sometimes face challenges that can usually be solved with the company's standard range of accessories. Sometimes however they require additional accessories in order to make the machines perform even better. Therefore, Hilti offers accessories ranging from pulleys for plunge cutting (cutting concrete without having access from the bottom/back), to flexible pulley systems (to reduce the angle of attack and facilitate setup), to additional wire storage with an optional cooling system for dry cutting, as well as a dust collection system for dry cutting concrete. From a safety point of view, an important accessory is its wire guards that improve operator safety. These reduce the risk to the operator both from a health and safety perspective.

Bespoke Solutions

In addition, Hilti also offers solutions that have been developed to service the requirements of different industries whose needs cannot be met with standard machines. To meet these specific customer requirements, Hilti has thus developed innovative bespoke solutions which come with many advantages for users. This often results, says the company, that its customers often experience a 100% increase in cost efficiency during serial cutting applications.

Bespoke equipment is made easier to handle, requiring close to no training. On top of that, operator intervention is reduced with advanced Cut Assist Technology (remote control of the machine, having a LAN

connection to remotely check and update the machine software) and closed loop wires that ensure that there are no wire breakages, hence no operator intervention. The bespoke machines are said to outperform conventional technology by a factor of up to 10 as every solution is 'made to measure', meaning that there are no limits to the possibilities whether the application is nuclear, oil and gas or any other application.

Optimum diamond wires for wire sawing

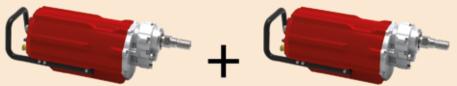
The wire range is the most extensive range available as Hilti offers all available technologies (sintered with a newly updated range, electroplated and vacuum brazed wires). On top of that, the company has developed a specific range for its high power standard saw (DSW 3018-E) and its bespoke solutions,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

Whatever challenge faced, Hilti is ready to provide either off the shelf or bespoke solutions to help its partners to make their jobsites as efficient as possible. Hilti also offers extensive services through its unique 'Fleet Management' program. This provides finance and additional service elements such as repairs at a fixed cost as well as the opportunity to borrow tools in order to allow partners to continue working when their machine is being serviced.

www.hilti.com

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The 9R road over bridge in Chennai, India has been in the plan for demolition for more than 12 years. The outbreak of Covid-19 actually made it possible.

he 9R road overbridge (ROB), popularly known as 'Elephant gate ROB', is one of the most famous grade separators in Chennai, India, being located at the exit of Chennai central railway station connecting with the coaching depot, having been constructed in 1933. Southern Railway had been making and revising plans to expand the capacity of two railway stations by adding more lines for more than 12 years which would see the bridge removed. The plan however could not proceed because of various issues encountered by both Southern Railways and the Corporation of Chennai, mainly due to traffic congestion at the bridge during peak hours.

Covid-19 making it possible

Southern Railway originally planned to have a line block and terminate all train's departures and arrivals so as to facilitate the demolition of the bridge. The plan was to allot 72h window for the work to ensure minimum disruption to passenger train traffic. After considering the revenue loss due to disruption in the traffic, railway authorities were forced to consider other various options for demolition with minimum revenue loss. In the meantime, during March 2020 Covid-19 arose with the resulting lockdown being enforced throughout India. Southern Railway took advantage of the situation, deciding to demolish the bridge during the lockdown period.

This contract for the demolition of the 87 year old bridge was awarded to P.K. cutting Tech. Pvt. Ltd (PKCTPL) headed by Kannan Paulthurai (a founder and committee member of IDA demolition association) who has around 20 years of experience in the fields of demolition and retrofitting. PKCTPL has experience in working at nuclear/thermal power plants, refineries,



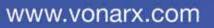
Kannan Paulthurai (B.Tech- Mechanical), director of PKCTPL (.K. cutting Tech. Pvt. Ltd). Kannan Paulthurai is the founder and a committee member of Indian **Demolition Association.**

stadiums, airports, bridges, water treatment plants, multi-story apartments, 'industrials', IT parks and many other structures. PKCTPL provides such services and expertise as the strengthening of old and new civil and mechanical structures, modifications and alteration by adopting advanced and modern technologies and utilising modern equipment. The latter includes heavy duty lifting equipment, diamond cutting systems, heavy demolition breakers, chippers and so forth. "We have well trained highly skilled man power to take up any kind of challenging job within the stipulated time frame with a sole motto of zero accident by adhering all safety rules and regulations," says Paulthurai of his company's attributes.

Challenging environment

When the project was awarded to PKCTPL, railway authorities emphasised that it had to be completed within 10 days and that all workers had to strictly adhere to Covid-19 protocols, including social distancing. Furthermore, the use of heavy duty equipment and explosives were also prohibited. PKCTPL agreed to all the conditions, looking upon the demolition project as a 'challenge'. The company also decided to use a diamond cutting system as the only viable option.

Taking advantage of the curfew enacted by the Indian Government (due to the Covid-19 lockdown), the railway authorities coordinated actions with PKCTPL and the Chennai Corporation in order to demolish the





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bridge. 25 workers were deployed and it was a challenge to organise the necessary staff and equipment from various part of India during the lockdown as travel restrictions had been imposed throughout India. With the help of railway officials and the Chennai Corporation, as well as the positive attitude displayed by the workers employed, these difficulties were overcome.

The demolition process

Using diamond cutting equipment, the cutting plan was prepared in accordance with the crane safe working load (SWL) receiving approval from the respective authorities. As per the cutting plan, the eight span bridge was split into two parts. Four spans comprised the first part and were dismantled from one end. After dismantling this section, all equipment, including a 250t crawler crane, had to be dismantled and moved to the other end of the bridge for the next four span section.

PKCTPL started as per cutting plan and undertook core drilling for providing slings for lifting purposes. By using a mobile 'crack wire' saw the company was able to keep on cutting the slab between piers in longitudinal directions (perpendicular to the track). Following this, the cut piece was lifted by the 250t crawler crane with the help of a sling and other lifting tools to be cut by the diamond cutting system simultaneously at each end. Once completed the cutting of first cut piece was lifted and loaded into a trailer directly being moved to

a stock yard, with unloading being undertaken by a 220t telescopic crane.

Once the first piece was lifted to the stock yard, the crane was moved to hold the second piece with the same process being repeated to remove the entire span. Once two span dismantling was completed, the pier was cut with diamond cutting systems and lifted with the crane and moved to the stock yard by trailer. "We were allowed to work maximum 10h per day with 25 workmen including engineers and supervisory staff. So we planned accordingly and used men and machinery at their maximum capacity and we ensured all machinery was continuously working maximum 10h without any break," says Paulthurai. The cut piece size was 5m x 5m and weighed approximately 35t, with the total dismantled concrete weighing around 1,500t.

PKCTPL ensured high levels of safety throughout as well as the security of workers, machinery and any third party property such as rail and electric lines. All relevant Covid-19 pandemic protocols were followed and adhered to as well as all relevant government regulations. No accident occurred during the demolition work which was completed within the time frame stipulated by Southern Railway officials.

The equipment used on the project comprised of a mobile track wire saw(120hp), two diamond wire saws (Hilti DLP32) as well as two Tyrolit PPH20 diamond wire saws and four diamond core drillers. On the more substantial side, a 250t crawler and a 220t telescopic crane along with three 60t trailers and a hydra.





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



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