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Words from the IACDS President

Like driving against a concrete wall in 130 mph

A year like no other is slowly approaching its end and what a year it has been. It began full of anticipation for an eventful year with a silver jubilee to celebrate as the IACDS has quietly turned 25 years old and one of the best trade fairs for concrete drilling and sawing, the BeBoSa. This however, like all other events, has been cancelled being postponed by a year.

At the beginning of this year, nobody would have thought what to expect. At one stroke, public life was over. It was like driving against a concrete wall at 130mph! From one day to the next everything changed and instead of the annual general assembly in Carlsberg, or the great anniversary event for IACDS and the fantastic trade show BeBoSa, we found ourselves in the middle of a lockdown. Instead of talking to friends and business colleagues, we practiced keeping socially distanced and wearing masks.

But for the last half of a year now we have read and written about almost nothing else. There is something else now, even if it seems that this Covid-19 topic dominates us and our lives. But even if I can't tell you much about events and meetings of the past year, we have been able to gain two new members from Germany through the companies Heger and Kern-Deudiam, and with the company Lee Yeon Industrial Ltd, we can welcome the first member from Taiwan.

The German Association (FBS) did manage to hold its annual general meeting under coronavirus conditions in mid-June. That meant only one representative per company, keeping socially distanced and apart from the speakers, with a mask being worn at all times. The event went smoothly and the duration was impressive with its brevity.

At the turn of the year there will be another yearbook from the IACDS. This time it will be an anniversary yearbook full of amazing stories about our fantastic industry. If you have a contribution that you would like to share with us, I would be very happy to hear from you and read all about it. Please don't hesitate to contact me (info@IACDS.org).

Michael Findeis,
President of IACDS

Since the implementation of all events is subject to travel restrictions still in force, it is difficult for me to recommend any international event at this point. Hopefully we'll meet at the next CSDA Annual General Assembly at the Hamilton Princess, Bermuda from 2-6 March 2021 or the BeBoSa in Willingen 15-17 April. And by the way, I can truly tell you that the people in Austria do not live in 'forest cities' and the trees do not explode. In fact, burning forests are a very rare phenomenon in Austria.

For the coming autumn, I wish you all good business, and I wish you stay well and please stay safe.

MCCLOSKEY INTERNATIONAL WELCOMES KEMACH EQUIPMENT

McCloskey International has appointed Kemach Equipment as its dealer for South Africa, Lesotho, Swaziland (Eswatini) and Botswana. An authorised JCB distributor established in 2003, Kemach has grown to become a leading earthmoving solutions dealer supplying equipment and aftermarket support to the mining, construction, quarrying and plant hire industries, as well as to central government.

Sales, support and service are delivered through Kemach's extensive Southern African network, including its national office based in Gauteng and branches situated in 11 locations throughout South Africa. To ensure seamless operations throughout its territory, Kemach Equipment's network of sales and service dealers is strategically positioned in Windhoek, Nelspruit, Swaziland, Polokwane, Upington, Schweizer Reneke and Vryheid.

The company offers a broad range of earthmoving equipment, with the addition of McCloskey crushers, screeners and stackers being a natural extension for the company as it continues to expand its products and services in the mining, aggregates, construction and demolition, recycling and infrastructure markets. In addition to the equipment itself, Kemach Equipment distributes a full range of genuine parts, while skilled field service technicians and product support engineers ensuring that assistance is available at all times. On announcing

the new dealership for McCloskey equipment, Les Lothian, CEO Kemach Equipment noted, "Adding McCloskey to our range of leading brands enhances our ability to satisfy the growing needs of our customers, while also creating the opportunity to strengthen our position of being a total solutions provider to the markets we participate in."

"Having Kemach Equipment on board further strengthens our distribution network globally. Southern Africa is a market with huge potential, particularly in infrastructure development which is a key part of South Africa's economic response to the coronavirus pandemic. These unprecedented times present some unique situations that we anticipate will contribute to growth in the marketplace," said Toni Laaksonen, senior vice president, McCloskey International. "Kemach has excellent relationships in both the public and private sector and working together will benefit not only our companies but, more importantly, their customers."

Kemach is in a strong position to support the sales of McCloskey equipment in the region. Lothian concluded; "With sustained and strong growth in the population and the required infrastructure, we anticipate equally strong growth in the aggregate sector. Bringing McCloskey products to the market at this key time benefits our companies, and our customers."



Changes to the board and senior management of Prinroth

Prinroth Group is pleased to announce the appointment of Werner Amort to the supervisory board of Prinroth from June 2020 following on from 16 years as president. Werner Amort will continue to support the company and will also succeed Michael Seeber as chairman of the advisory board. Klaus Tonhäuser has been appointed president and Alessandro Ferrari announced as the CEO for the Tracked Vehicles and Vegetation Management divisions. Horst Haller is the new CEO for the Snow Groomer division.

Anton Seeber, president of the HTI Group, of which Prinroth is part of, says of the appointments: "Werner Amort has, in the last 30 years, made an important contribution to the growth of our Group. First, with great commitment to Leitner, and subsequently, since 2004, more and more towards Prinroth. I am certain that Klaus Tonhäuser, together with the two CEOs, Horst Haller and Alessandro Ferrari, will continue the successful path of the Prinroth Group in the direction of innovation and diversification."



'Dual View' dumpers receive European Rental Award

Dual View allows the operator to conveniently and quickly change the seat position through an 180° rotation of the entire operator control panel and the seat console. This provides the operator a perfect view in the direction of travel during transport, loading and unloading. Three models with a payload of 6t to 10t have now been awarded the European Rental Award in the category of 'Rental Product of the Year'.

For more than ten years now the European Rental Awards have been organised jointly by KHL Group's magazine International Rental News and the European Rental Association, being awarded in various categories. This year, the jury selected Wacker Neuson's Dual View dumpers as 'Rental Product of the Year' with the presentation award ceremony being held online on 30 June 2020.

Alexander Greschner, CSO of the Wacker Neuson Group, accepted the award, thanking the judges in his video message. "I am delighted that our Dual View dumper has been awarded Rental Product of the Year 2020. Dual View is the result of very close collaboration with our customers, particularly rental companies, who have accompanied us throughout the entire product development process. With these dumpers, we are setting new standards in terms of operator and con-

struction site safety, flexibility and economy and that makes our Dual View dumpers ideal for rental companies."

The Dual View dumpers DV60, DV90 and DV100 are said to provide unrestricted view in every situation. The seat console and the control panel can be rotated conveniently from the operator's seat by simply unlocking the console and then turning it to define the direction of view and travel. Dual View unfurls its strengths in particular on small confined construction sites, such as in urban areas, in tunnels or on busy roads. The operator steers the wheel dumper with the skip in the travel direction on the construction site, loads or unloads it with a full view of the loading area and, after a 180° rotation of the seat, drives away again in the same way with a free line of sight without having to turn the vehicle. In this way, the operator always has the working environment in full view, which means significantly more safety.

Other time tested and proven safety features, such as the hydrostatic drive, the wear free spring loaded parking brake, as well as operation via joystick, can be used to ensure that the operator always keeps a hand on the steering wheel, making the operation of the Dual View dumpers simple and intuitive.

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What about 2021?

President of the IACDS association, Michael Findeis, wrote in his editorial column, which is published on page 6, got what the coronavirus pandemic has done to the industry spot on. He writes: "It is like driving against a concrete wall in 130mph." I had exactly the same feeling and it happened during March this year. However, since then we have learned to work quite differently than during normal years. Talking as a working publisher, I have had very few live meetings, with any meetings being held by video conferences, video chats, phone calls, etc. Additionally, more or less 100% of this year's trade shows has been postponed and pushed back to 2021.

As the weeks and months have passed I have talked to many contractors and suppliers in the industry and I have fortunately found that many companies in our industry have been able to find new ways to survive. Both concrete cutting and demolition firms here in Sweden are reporting that business is quite good despite the pandemic. Decisions might take a little bit longer nowadays and some projects are postponed, but still the wheels are rolling somehow. With work to do there is also a need for tools and machines to be invested in. In particular, in Sweden, the diamond tool business is more or less at the same level as in a normal year.

Demolition attachment sales are somewhat down but still there is business and contractors continue to invest. Larger investment in machinery has in some cases been halted and contractors try to manage to do jobs with machines and equipment that they already have in their fleet. However, many confirm that there is a big need to replace older fleet machines. Maybe a result of the coronavirus pandemic will be that the expected downturn in the market during 2020 will not be that deep as once estimated. In Sweden we could see a clear downturn in the market at the end of 2019 with predictions of increased downturns in 2021 and 2022. The pause in business caused by the coronavirus may have superseded these economic downturns.

In June everybody was hoping that things would have cleared after the summer, but we have learned that Covid-19 will be around a little bit longer than we first expected. We had to take the decision to postpone our Scandinavian demolition tradeshow, Demcon 2020 and move the dates to 9 to 10 September, 2021. Instead we organised the 'Demcon Virtual Road Trip 2020', where exhibitors were invited to attend a virtual show during October and November this year. For three weeks our film team has visited suppliers to the Scandinavian market making a number of films about new products that are being launched. This became highly successful and we are now hoping that many people will 'attend' our broadcasts. More information can be found on www.demcon.se.

The broadcasts and films will be in Swedish though, but maybe this idea can be followed in other regions of the world. I think we as 'suppliers' have to learn to find new ways of reaching our customers as I think we are going to face the effects of the coronavirus during 2021. Only when a safe and working global vaccine is available for everybody can we start relaxing. Until then we have to live according to restrictions, as now we are seeing a second wave of the virus in many countries and some countries have not even ended their first wave.

I am very doubtful concerning what tradeshow will be held during the first six months of 2021. Will World of Concrete, SaMoTer, BeBoSa, Intermat 2021, to name but a few, really take place? 'Virtual' alternatives are set to become more popular as new ways to meet and exhibit developments, and are in some way or another, set to become a permanent fixture.

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



Aquajet provides increased aftersales services for North American customers

Aquajet now offers an increased equipment inventory, enhanced parts availability and high calibre aftersales service and support delivering fast, reliable support for customers across North America, thereby increasing productivity and shortening lead times.

"Aquajet is committed to providing the best equipment and customer support in the industry," said Roger Simonsson, Aquajet managing director. "That's why we continually work to improve our products and solutions. Recent expansions to our equipment, parts and service facilities allow us to up our game and provide even better service and support for our North American customers."

Shared with Brokk Inc., the recently expanded Stanhope, New Jersey, equipment distribution and service facility offers the company more space for increased equipment inventory. Additionally, the added space allows the Stanhope team to offer demonstrations onsite, providing an ideal setting for customers to experience Aquajet's versatile and innovative hydrodemolition robots and choose models and attachments best suited to their needs. The Stanhope facility also offers select equipment servicing by appointment.

In addition, recent upgrades to the parts warehouse in Monroe, Washington, enhance parts availability for Aquajet hydrodemolition robots and accessories. An ample inventory of parts ensures fast delivery, often overnight under normal circumstances. In addition to swift delivery, Aquajet provides experienced technicians available by phone to help customers quickly identify issues, recommend required parts and process orders, with this direct service significantly reducing downtime.

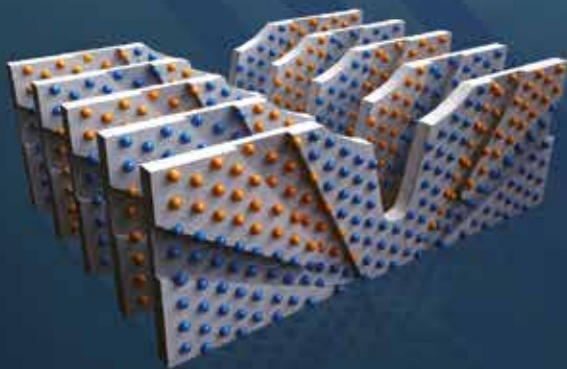
The demonstration and service centre in St. Joseph, Missouri, houses a complete service complex with a wash bay, workshop and welding station. Full time technicians provides the best possible solutions, reducing lead times on services ranging from troubleshooting and routine maintenance to repairs and refurbishment. The process starts with a thorough inspection and analysis of all critical machine components. From there, technicians and owners can walk through the various options to match machine capabilities to operational needs. The service team welcomes customer mechanics to assist in repair or refurbishment of their equipment, allowing them the opportunity to learn more about the care and maintenance of their machines. Replacement parts are backed by a 12 month warranty against manufacturing defects. The facility also offers space for equipment demonstrations and training opportunities.

Aquajet representatives are located throughout the U.S. and Canada and can quickly travel to a work facility or jobsite for training, which is included with the sale of each machine. Trainers guide the whole team through safety practices, operation and service of the equipment. Upon successful completion of training, operators receive an operator license. Aquajet representatives also travel to jobsites for troubleshooting assistance. "We understand that unscheduled downtime means lost revenue," Simonsson said. "Our service team makes sure our customers not only have the necessary training to properly operate the equipment, but have quick access to parts inventory, equipment evaluations and repair and refurbishment services to keep their operations up and running."

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INFORMATION IS THE KEY

In these months of uncertainty, we have all sought information for many aspects of our lives including health, economy and even leisure. During this time, we have realised how important it is to get valuable information, provided by official organisations or by well-known and reputable entities.

With this information, we have been able to make decisions to plan for our future in the short or medium term. For example, knowing the specific health and safety measures during these months we have been able to organise our holidays, adapting our destination or changing some plans in order to continue enjoying some days of rest whilst respecting the recommendations and restrictions established by the authorities.

In the same way, having access to real data on the situation of companies that operate in our sector of activity can help us to make forecasts and adapt our plans to take advantage of opportunities or minimise possible risks. This valuable information is what each year is compiled and published by the EDA in its European Industry Report: (<https://www.europeandemolition.org/industry/eda-industry-report>).

This year, more than ever, this type of information will prove to be very useful for companies and entities as this data can provide some security when making decisions in these times of uncertainty. In March 2020, when Covid-19 became established, it affected business in Europe (lockdown, changes in production and so forth) and hence next year's forecast. For this reason, EDA decided to discard the answers received in its online survey and conduct a specific questionnaire survey about the impact of Covid-19 on the demolition business.

In June, the surveys were relaunched, including new questions which are of interest to both contractors and suppliers,

in addition to general questions about companies, developments in 2019 and forecasts for 2020. The EDA Industry Report 2020 (that will be launched in autumn in digital version through the EDA website) will be the sixth edition of this publication.

On behalf of the EDA, we would like to thank all the demolition companies for their participation in this survey, as well as the dissemination made by the national associations in order to have representative data from each country. As always, but this year more than ever, we hope that this study can help demolition industry stakeholders broaden their knowledge of the business in Europe and their own countries.

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



5000

The handover of the 5000th Erkat cutter unit recently took place at the Beuthauser headquarters in Passau, Germany. The ER 650-3 model has been designed for 15t to 28t excavators, being ideal for use in channel construction, demolition work, tunnel construction and specialised civil engineering, as well as underwater work. In addition to the ER 650-3, the ER 1500, ER 50 and a wide range of Epiroc attachments (including hydraulic hammers, demolition shears and grippers) are all part of the Beuthauser offering. Beuthauser also offers the round shank picks for the Erkat cutter units. The ER650-3 will initially be



available as part of the Beuthauser rental fleet focusing on sustainable work areas such as the renovation market, explosive free reverse construction in inner city areas or the removal of contaminated surfaces.



Kono, the Riga based dealer for the Bobcat range in Latvia, has completed a project to renovate a very rare and historic Bobcat M-600D skid steer loader that is around 50 years old and now fully working again.

The M-600D was first introduced to the Bobcat range in 1967, with the newly refurbished M-600D being manufactured under licence by Scheid Maschinenfabrik GmbH in Germany in the early 1970s. The M-600D was found by Ivars Gailums, a director at Kono, and must have been made between 1970 and 1972, when the decision was made to transfer all manufacturing back to North Dakota in the USA.

Several challenges however had to be overcome to refurbish the M-600D arrived; "I contacted Robby Bosch, who has recently retired from Bobcat in EMEA after nearly 40 years of service, hoping that his experience and knowledge would be of great use, which of course it has been," explains Ivars Gailums.

In the EMEA region, there is no better person to ask than Robby, who has carried out similar refurbishments himself. Prior to joining Bobcat in 1981, Robby was service manager with a Bobcat dealer in his native Netherlands, where he worked with several customers with M-600Ds. The biggest challenge has been obtaining specific parts, which because of the age of the machine are obviously no longer available to order. Ivars Gailums added: "I have focused on every aspect - even whether the bottom of the seat was one piece or sewn together, as well as the colour of the bucket, they are all important to me. On the internet, the book published to celebrate Bobcat's 50th anniversary had pictures of machines with

buckets painted white. Again, thanks to Robby Bosch, who was able to answer questions like this about the M-600D."

The duration of the project has been just over two years and as Ivars Gailums explains: "Because we were busy, we changed our plans and speeded up the process. The M-600D when it was disassembled into many parts tended to take up a lot of space so we had to take account of this so it didn't cause problems in our workshop. The work on the machine was mainly done by a team of three of our service engineers. The team was led by our most experienced engineer, Juris Gailitis. The Deutz engine was brought back to life by our youngest service engineer, Davis Graustins, who can be assigned the finest and most accurate work tasks. Last but not least, the third member of the team was Dzintars Lorencs, who performed welding and repair work on the steel components."

Jaroslav Fišer, product line director for the Bobcat compact loader range in EMEA, stated: "We are very proud of what Ivars and the team at Kono have achieved with the refurbished M-600D. It is yet another episode in our story, which began over 60 years ago in North Dakota in 1958 when Melroe introduced its first compact front end loader, with a commitment to outstanding quality, workmanship and innovation that is even stronger today. With the fine work carried out by Kono, their M-600D is far more than a picture in our history books; it is a real working machine again, proudly displayed in the company's showroom in Riga, where it will be enjoyed for many years to come by visiting customers, admirers and Kono staff alike."



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EVENTS

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Rimini,
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www.ecomondo.it

BAUMA CONEXPO INDIA

November 3-6, 2020
Gurugram, New Delhi,
India

www.bcindia.com

BAUMA CHINA 2020

Nov 24-27, 2020
Shanghai, China

www.baumachina.com

CONCRETE SHOW BRAZIL 2021

[Dates not set yet]
São Paulo Expo, São Paul, Brazil

www.concreteshow.com.br

WORLD OF CONCRETE 2021

January, 18-22, 2021
Las Vegas Convention Center
Las Vegas, USA

www.worldofconcrete.com

THE ARA SHOW 2021

Feb 22-24, 2021
New Orleans, Louisiana

www.arashow.org

SAMOTER 2021

3-7 March, 2021
Verona, Italy

www.samoter.it

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 Princess Resort,
Hamilton, Bermuda

www.csdas.org

BEBOSA 2021

April, 15-17, 2021
Willingen, Hochsauerland,
Germany

www.bebosa.com

DEMCON 2021

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

www.demcon.se

New member for the European Demolition Association

The EDA's newest member, Lezama Demoliciones has 25 years of experience in the demolition industry aiming to carry out demolition in all industrial sectors. The services currently provided by the company are applicable to all types of installations, especially in the civil en-

gineering and metalwork areas. The company employs professionals with recognised experience in all areas of their activity, contributing expertise in such areas as environment, safety, project design, planning, project management, control of works and quality.



Moviter new distributor for Allu in Portugal

Allu is proud to announce that Moviter is its new distributor in Portugal. The company will be supplying a comprehensive range of Allu Transformer and Processor attachments, as well as providing full aftermarket care, spare parts and dedicated customer service.

With headquarters in Leiria and office in Lisbon in Portugal, but with facilities located throughout the country, Moviter prides itself on delivering the best and most innovative solutions to its clients. The company has developed its business over many years through partnerships with many of the leading construction and aggregates companies in the country to understand their needs, culture and business aspirations. This understanding allows Moviter to provide exceptional service and advanced solutions to meet any challenge that arise using world-class products.

Moviter is now the exclusive representative and distributor in Portugal, Angola and Mozambique of an extensive range of brands of construction, quarrying (as well as associated industries) and agricultural equipment. The brands distributed by Moviter are characterised by market and technological leadership in various segments in both the domestic and world markets. With a long and proud history of successful relations with these manufacturers (including Hitachi excavators) and, above all, its customers, has been based on a readily available after-sales service and a logistics organisation adapted to market needs.

As part of Moviter's drive to provide its customers with even more state of the art solutions and products, company managing director Arnaldo Sapinho, was quick to spot the potential of the Allu ranges of Transformers and Processors. This has directly led to the company being appointed Allu's dealer in Portugal. The appointment of such a professional and experienced industry distributor reinforces Allu's commitment in providing even greater levels of customer focus. It also further enhances locally focused customer support, whilst at the same time enabling customers to benefit from dealing with a truly global company.

In practical terms this means that as well as Moviter providing 'point of contact' customer support, field servicing and spare parts, when the situation requires it, the company will be able to call on round the clock assistance from Allu's Finland based technical support department. This will further enable customers to benefit from the specialised advice and assistance that has made Allu the world leading supplier of material processing attachments: namely the Transformer and Processor series.

Of Allu's appointment of Moviter, Allu vice president Carlos Guallart, states: "We are sure that the combination of Allu equipment and global aftermarket support, together with the local knowledge and industry expertise of Moviter, will enable Allu customers throughout Portugal to benefit from a winning combination."



New sales director and general manager of Kranlyft UK Ltd

Kranlyft Group is pleased to announce that Eddie Charity will become the new sales director and general manager of Kranlyft UK Ltd effective 1 August 2020

Eddie Charity brings over 20 years of relevant industry experience and knowledge with his appointment set to play a key role in supporting the continued growth strategy of Kranlyft UK Ltd. Eddie has a great deal of UK and international experience that encompasses Kranlyft Group values. With a strong understanding of the market, he will become an asset in the Kranlyft Group's expansion in the UK.

During his career, Eddie has developed a wide network of contacts across the industry, being a proven, experienced and innovative director, sales manager and general manager in the field of hydraulic attachments. He has worked in the plant hire, screw piling and construction products industries both in the United Kingdom and Europe.

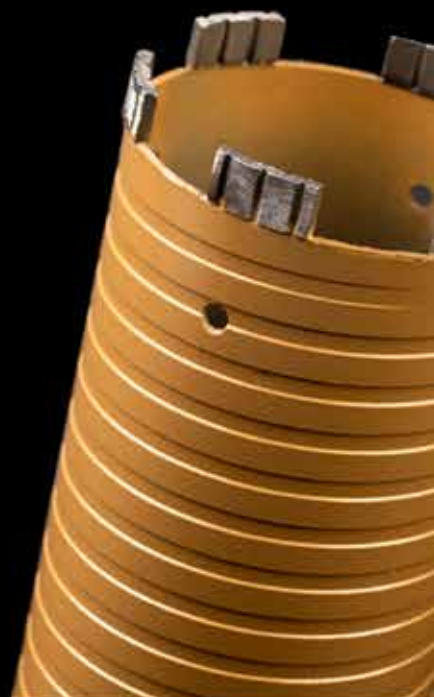
Eddie has been involved in the construction industry all of his working life, and spent 10 years running the UK and European arm of Digga UK, manufacturing and selling auger drives and associated parts to dealerships all over Europe. For the last four years he has been working for Plantforce Rentals as national sales manager, being responsible for major projects, key clients and depot management, hiring heavy plant on a national basis.

Jurgen Vater, CEO of Kranlyft Group comments on Eddie's appointment as sales director and general manager of Kranlyft UK Ltd: "We are very pleased that Mr. Eddie Charity will be joining our team. And we look forward to working together, expanding further on the strong foundation we have at Kranlyft UK. He brings a thorough understanding of our customers and end users, great focus on execution and has a growth mind-set. From all of us, we wish him a warm welcome."



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The Allu Transformer is a hydraulic attachment for 8t – 160t wheel loaders, excavators, skid steers or similar equipment. The concept and design has been developed over many years by the Finnish company to effectively make businesses more efficient, productive and profitable. The very latest developments mean Allu and its new dealer in Estonia, Sautec AS, now wants to transform how material handling and processing businesses operate.

In many countries, Allu's world leading Transformer and Processor series' needs no introduction. The attachments enable users to benefit from reduced investment and operating costs, have a smaller carbon footprint

and directly benefit from lower transportation costs. Typical businesses to benefit include soil and waste material recycling companies, pipe laying contractors, civil engineering firms, processors' of contaminated soil, soft rock quarries, surface mines and demolition companies.

Now construction and material handling business in Estonia are also able to benefit from excellent levels of sales and support through the appointment in March 2020 of Sautec AS as Allu's dealer there. The appointment of such a professional and experienced construction and mining industry distributor reinforces Allu's commitment in providing

even greater levels of customer focus. It further enhances locally focused customer support, whilst at the same time enabling customers to benefit from dealing with a truly global company.

Expert distributor for Allu in Estonia

Sautec AS has enjoyed many years of unprecedented success in supplying and supporting underground mining equipment and construction demolition tools throughout Estonia. When the opportunity arose, the company saw the advantages to its customers from Allu equipment. "We have many years of success in supplying specialist mining and demolition equipment. The Allu equipment ranges are the perfect addition to our offering and expertise. They draw upon the very latest thinking in material handling and processing, being manufactured to the very highest levels," says Kimmo Alakoski, managing director of Sautec AS.

Sautec located (20km from Tallin) Sautec AS is an established name throughout Estonia, Lithuania and Latvia, with many years of expertise and know-how. The company has placed an emphasis on developing long term partnership relationships with its customers, with continual training and development of its employees being key to its success. Thus with offices, workshops and service engineers located in Estonia, the company has since its foundation successfully serviced

the requirements of the Estonian construction, demolition, recycling and mining industries.

First class sales, service and support

As well as equipment sales and rental, local support will be provided to Allu customers by Sautec AS. However, when the need arises, the company will be able to call on round the clock support from Allu's head office in Finland. This will further enable customers to benefit from the specialized advice and assistance that has made Allu the world leading supplier of material processing attachments. Of the appointment of Sautec AS, Kaspars Kokins, area manager for Allu states: "We are sure that the combination of Allu equipment and global aftermarket support, together with the local knowledge and industry expertise of Sautec AS will enable Allu customers throughout Estonia to benefit from a winning combination."

Kimmo Alakoski adds, "The benefits of the Allu Transformers are already being well received by our customers. Through the use of the Allu equipment, many material handling and processing companies in Estonia are already seeing environmental, efficiency and productivity improvements to their operations. Vitally, however, they are also seeing their profits increasing! We are sure that the continuing development of new solutions, such as for demolition and hard rock quarrying, will further benefit old and new customers, whatever their industry."

New dealer for Hitachi in Greece

Hitachi Construction Machinery (Europe) NV (HCME) has announced the appointment of a new dealer for customers in Greece. As of 1 May 2020, Helma SA has been offering the entire Hitachi product line up from mini to mining excavators, wheel loaders and dump trucks.

With headquarters in Athens, the company also has a service branch located in Magoula. It was established in 1985 and currently has 38 employees, 15 of whom are directly responsible for after sales. Helma SA provides a wide range of equipment for applications such as road and general construction, quarrying and mining and railway projects.

Led by managing director Dimitris Tsoumas, directed by general manager Yannis Tselikas and with its sales department headed by Kyriakos Konstantonis (all who have more than 25 years of industry experience) Helma SA always tries to exceed customer expectations. "There is a strong relationship with suppliers in our market and a demand for hi-tech machinery with the latest software and technology to minimise costs," says Yannis Tselikas. "Rental is also gaining traction in Greece as a flexible solution for customers who want better fleet management, and to



shift the focus from capital expenditure to monthly operating costs."

Predicted growth

Yannis believes the outlook for the construction market in Greece is bright with many potential projects on the horizon. "The construction market suffered considerably in Greece after the 2008 financial crisis, especially between 2010 and 2013," he explains. "However, the immediate future looks promising, with several large scale and high profile projects under way."

These include the construction of a new airport in Crete, scheduled to be operational in 2023, and the development of the old Athens airport site into luxury homes, hotels, offices, a yachting marina and casino. Railway networks

are also being upgraded, such as the route from Athens to Thessaloniki in the north and to the Peloponnese. 'New Metro line 4' is also in the latest stage of tender's procedure before construction. In addition, investments have been made in national highways, renewable energy and construction projects for the tourism industry.

HCME president Makoto Yamazawa says, "We look forward to working closely with Helma SA and supporting new and existing customers in Greece. We believe we can meet the growing demand for hi-tech construction equipment, with advanced software and technology, particularly as we are introducing the new generation Zaxis-7 range of excavators across Europe."

Heger becomes a new member of IACDS

The International Association of Concrete Drillers and Sawers, IACDS, has increased its presence in the world's industry with the addition of a new company: Heger.

Heger is a manufacturer of diamond tools for industrial purposes that is characterised by its in house production, flexible manufacturing and short delivery times. It is a family owned company being located in Heitersheim south of Freiburg, Germany, and focuses on the requirements of its professional customers' requirements, being able to advise, analyse, develop and produce the best and most economical solution. It supports its customers in the field when they face their daily challenges and individual projects, with the company's goal being to provide continuous quality, reliability and efficiency.

The range of application for Heger products includes: building construction, road construction, floor preparation, renovation, reconstruction and decontamination, stone processing, refractory and industrial applications.



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Erkat transverse drum cutter impresses with its multi-functionality

Erkat drum cutting equipment is constantly expanded, with innovations reflecting unusual customer wishes and usage requirements. The recent development of the innovative wood cutting head has already been customer tested, with the ER 250 proving to be an effective multi-functional tool.

Wood cutting head fulfils special requirements

During sewer digging work close to Hamburg, tree stumps also had to be removed when clearing an embankment. Epiroc's German product manager Ralf Schumann recognised the problem and saw this as the perfect opportunity to present a new development from Erkat. "We have developed a new cutting head for our drum cutters, which is specifically designed for chopping up wood. There has been no development like it to date. It was a real gap in the market." In this specific application, the embankment also acts as a dam and the roots of the cut down trees are spread far and wide.

Simply tearing out the roots could damage the dam significantly which would result in erosion.

In cooperation with Liebherr Mietpartner, Epiroc provided a ER 250 Erkat drum cutter. The attachment was tested extensively, with the new wood cutting head proving to be a great success. Ralf commented; "The tree stumps in the embankment could be milled out easily and without risk. That's exactly what the customer wanted." The transverse drum cutters from the ER series are offered for excavator classes from 1t to 125t and are ideally suited for trenching, tunnelling, special foundation work, demolition and for mixing different materials in the ground. The low vibration and quiet operation of the Erkat special milling machines also enables it to be used in sensitive areas.

Erkat special drum cutters with cutting head for milling tree stumps are offered in the excavator classes from 8t to 28t; for example, ER 250 W for 8t to 15t, ER 600 W in the 10t to 18t range and the ER 650 W from 15t to 28t. The transverse drum cutters can be

converted for different applications by easily switching the cutting head, such as when profiling cutting heads for profiling and cleaning surfaces; tunnel cuttings heads for reworking tunnel profiles; cutting heads for milling tree stumps; mixing cutting heads for mixing materials for soil treatment and extraction cutting heads for increased performance in soft stone.

Precision work

In another project, a ER 250 milling machine was used by Eurostone GmbH in the Werra-Meißner district in Hessen, close to the city of Sontra, where the A44 motorway between Kassel and Herleshausen is currently being expanded. The building of a tunnel under the Boyneburg is a sub project and in order to protect the opening to the tunnel portals from landslides, the embankment was stabilised and will now be lined with large blocks made from natural stone. Initially the sandstone blocks – 8,000 in total - were delivered to the construction site as untreated raw material from the nearby quarry. The surface of the blocks was processed by hand onsite as the first step. Only when an even rectangular shape has been achieved can they be used as building material for securing the embankment.

Ralf Schumann saw what needed to be done: "This is extremely hard work for the workers. It's real manual labour. By hand, they can just about manage four to eight stone blocks per day. But this is child's play with the drum cutter." A ER 250 milling machine was handed over to the construction company on a trial basis and success followed quickly. "The work was much faster with the machine. One stone block can now often be completed in 30min and is ready to use for the construction work." The customer was pleased by the performance and decided to keep the ER 250. Using the machine not only saves time and money but also relieves the strain on personnel.

TWO TOOLS IN ONE

The new Enerpac ECS-Series Cutter Spreader combination tool features powerful jaws that can cut and spread, bringing a versatile and simple tool to demolition and decommissioning projects.

The powerful spreading jaws apply 5t of force to quickly open workpieces and expose the internal parts of vehicles, appliances and other industrial equipment. A pair of large blades 'grip and cut' through extensive sections of sheet metal and similar materials, streamlining and accelerating the processing operation. Whether recycling appliances, removing impediments or cutting materials down to size, the Cutter Spreader combination tool is the ideal tool to access required parts and get the job done.

The Cutter Spreader combination tool is an innovative and simple design that offers both cutting and spreading action in a single 'plug and play' tool without the need of pumps, hoses or batteries. The tool only

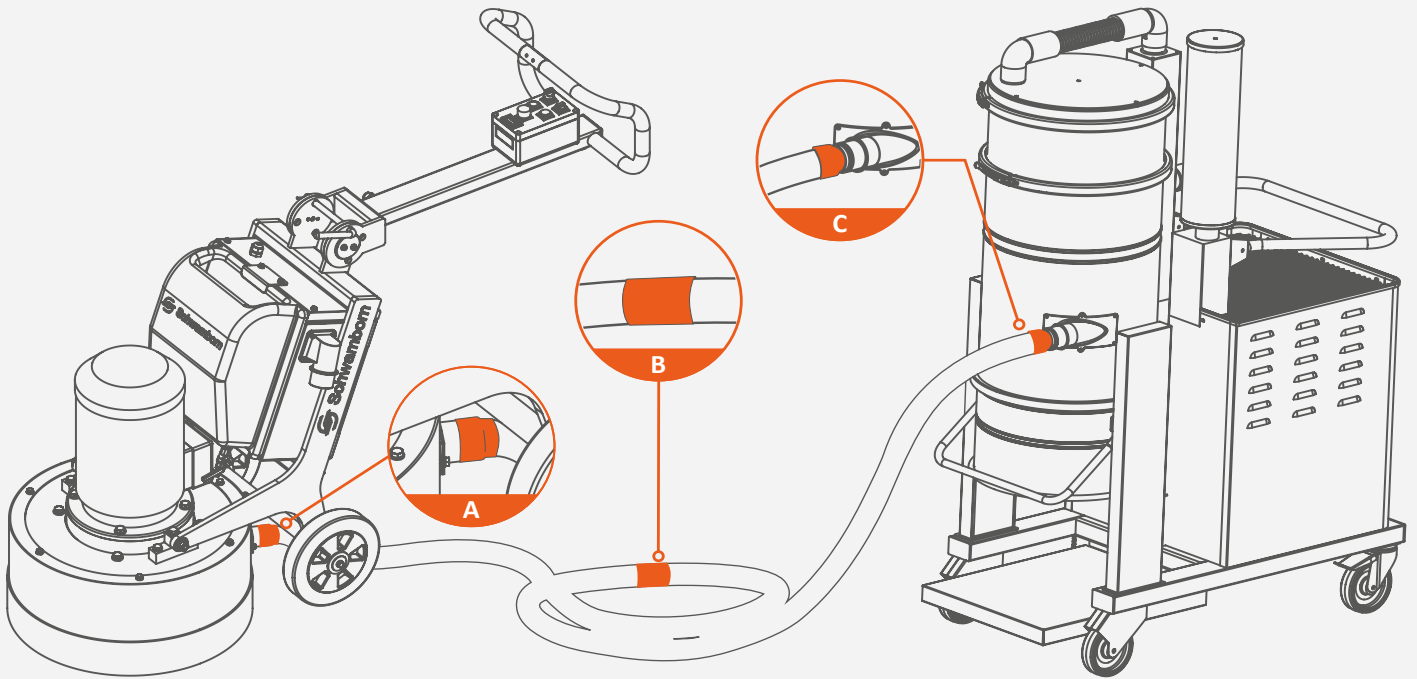
weighs 15Kg and features a rotatable head for optimal positioning of the jaws on the workpiece. A large control knob positioned directly at the front of the handle makes it easy to activate the jaws, regardless of how the tool is positioned. The Cutter Spreader combination tool blades open to 300mm to grip and cut a large variety of work pieces within two to three seconds. Unlike typical spreading tools that deliver only 1t of spreading force, the powerful ECS-Series tools generate over 5t of force to get the job done fast and with ease.

Enerpac is a leading manufacturer of high pressure hydraulic tools, controlled force products, portable machining, providing on site services and solutions for precise positioning of heavy loads. As a leading innovator with a 110 year legacy, Enerpac has helped move and maintain some of the largest structures on earth. When safety and precision matters, elite professionals in industries such as aerospace, infrastructure, manufacturing,



mining, oil, gas and power generation have relied on Enerpac for quality tools, services and solutions, with the new fast and powerful ECS-Series continuing this proud tradition.

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Pulling down a building today is akin to playing a video game in the safety of one's home. It might sound like an overstatement but it is not. The operator sits in a comfortable cab at a safe distance from the falling objects operating attachments that bite, tear, crush and crunch a building's insides' 30m above. What used to be a dusty and somewhat dangerous business is now high tech and fun thanks to sophisticated and efficient work tools available to specialist contractors. PDi's Andrei Bushmarin reviews the latest innovations in the excavator attachment industry.

Epiroc extends CB 'Concrete Buster' range

Epiroc, a Swedish based multinational giant, has added three new models to its proven CB Concrete Buster range. Due to their relatively low weight, the CB Concrete Busters are a good fit with high reach or long front carriers. They also come handy in residential areas where noise is an issue and hydraulic breakers are subsequently off limits. The new CB 5500 and CB 7500 models are designed for 50t to 85t excavators, with their wide jaw openings and high cracking force, they are indispensable for dismantling massive concrete and steel structures such as foundation walls and girders. Two powerful hydraulic cylinders, whose rods are protected by special guards, provide continuous closing force whereas a speed valve is installed to shorten the attachment's working cycle.

Two independently moving jaws, complete with replaceable and reversible cutting blades, and 360° degree rotation, enable precise positioning of the attachment. Should the tool grip the material at an oblique angle, a built in pressure relief valve kicks in to bring the jaw into the correct position. With a jaw opening of 1,600mm and

1,800mm, the CB 5500 and CB 7500 boast a crushing force of 150t and 190t respectively. Also new from Epiroc is the CB 4500 Concrete Buster, designed to fit 40t to 55t carriers. The CB 4500 has a jaw opening of 1,400mm,

delivering a crushing force of 130t. With these new attachments in place, the CB line up now comprises seven models, ranging in operating weight from 320kg to 7,400 kg. www.epiroc.com



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New line of rotating grabs from MB Crusher

Versatility is the word that best describes the brand new MB-G series of rotating grabs from Italy based MB Crusher. This versatility is achieved thanks to the five types of accessories available for the new attachments. The first accessory is a multifunctional blade kit: toothed on one side and smooth on the other, allowing the handling of large and oddly shaped objects. The blades can be quickly and easily inverted, if necessary. Another accessory is a claw containment cover kit, which is used to collect small sized material, to dig and dredge natural soils as well as load earth, gravel and sand. A grip improvement kit, which is installed on the internal side of the grapple, improves grip and precision. A tilting lift rubber protection kit, also mounted on the inner side, permits picking up and moving around loose material. Lastly, a rotation power extender kit can be installed on the top part of the grapple to boost the rotation when dealing with heavy objects. The attachments feature a safety mechanism to prevent the release of the object due to a sudden loss of pressure and a 'silent block' for jobs in noise sensitive areas. Currently the Italian manufacturer offers four MB-G models for 6t to 30t carriers.

www.mbcruiser.com

Genesis Attachments expands its 'Razer' line

US based Genesis Attachments has announced the launch of the GDT 590 Razer - the largest of the four

model line. Featuring a lightweight design, the GDT Razer is optimised to fit on standard and most high reach excavators. With its 1.3m jaw opening, 1.2m jaw depth and over 3.6m reach, the GDT 590 Razer is designed for tough applications such as general and bridge demolition, concrete recycling and C&D waste processing. To further enhance processing capability, the GDT's lower jaw features an open relief area that allows material to easily pass through thus preventing jamming. All GDT models feature a short, flat top head with bolt on bracket that simplifies installation and switching of the Razer between excavators. This also facilitates customisation through the location of the crushing teeth, with interchangeable front to back reversible bolt on teeth for longer life and lower cost of operation.

www.genesisattachments.com

New CMB multiprocessor kit allows jaw change in a blink of an eye

Italy based attachment specialist CMB has added the FK multiprocessor kit to its product range. Featuring a 360° rotatable mainframe and a redesigned hydraulic quick coupler, it allows users to switch quickly between various demolition attachments. Thanks to the bolted and interchangeable teeth and blades, jaw maintenance is quick and simple. The operator can change the jaws hydraulically within just 1min and 15sec. Featuring a speed valve to improve the jaw's movement, the FK multiprocessor kit is available for five models for 10t to 55t excavators.

www.cmbattachments.com

Allied-Gator features 'Multi-Tool' MT Series

US based Allied-Gator has been manufacturing hydraulic attachments for the scrap and demolition industries for over 40 years now. Its tried and tested Multi-Tool MT Series is available in various sizes ranging from 360kg to 23.5t, with all MT attachments utilising interchangeable jaw sets. The MT 'Quick-Change Shear', 'Cracker/Crusher' and 'Densifier Jaw Sets' ensure extreme versatility. Due to the patented 'Power-Link and Guide' system, the MT series delivers high levels of power. Dexterity

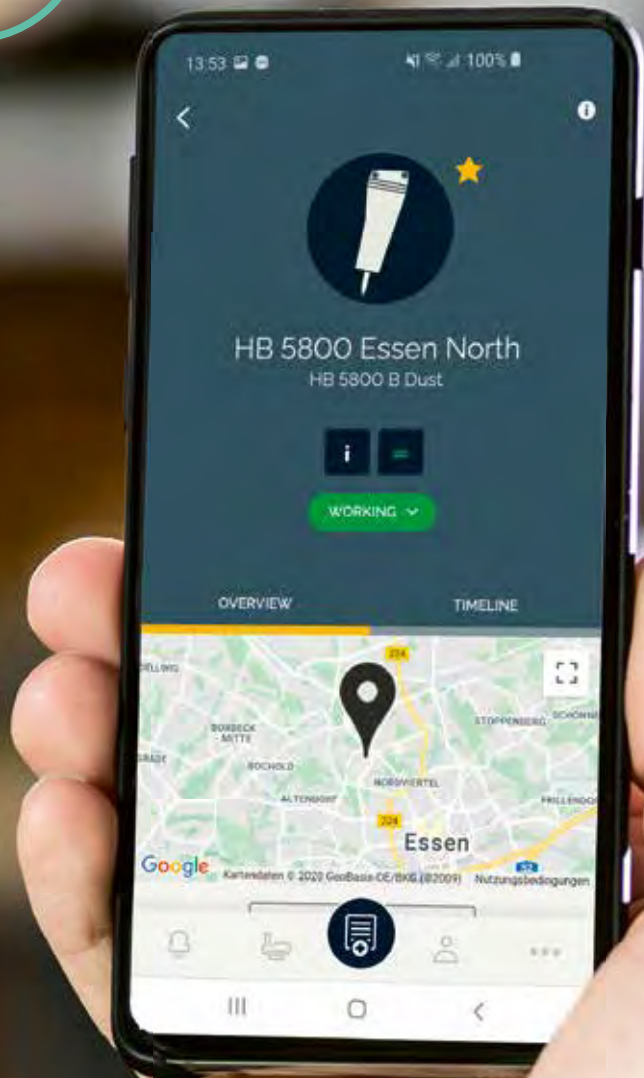
and power are further enhanced by the proprietary and patented 'Serrated Gator Blades' designed for the MT mobile shear. According to the manufacturer, Serrated Gator Blades can outlast conventional shear blades by up to 50% when processing general scrap and by up to 90% when shearing steel wire and cable.

www.alliedgator.com



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Rotar builds on 'Ramplifier's' success

Netherlands based Rotar used Bauma 2019 to unveil the RCC 30 concrete cutter, featuring its innovative Ramplifier technology, with the Ramplifier being a special unit housed inside the cylinder rods. When the cutter comes up against resistance, the unit kicks in to amplify the crushing force. Once the machine's pressure reaches 350bar, the tool's crushing force peaks at 700bar. Besides the extremely powerful cylinder, the RCC 30 also boasts interchangeable wear parts, fast cycle times and optimised jaw shape. Buoyed by positive feedback from the market, the Dutch supplier has decided to add another three models to the existing RCC 30. Weighing in at 2.4t, the RCC 25 is already available for 20t to 30t excavators; the 2t RCC 20 for 18t to 25t excavators and the 4.5t RCC 45 for 38t to 55t carriers are currently in the pipeline.

www.rotar.com

Rockwheel proves its worth as a trenching solution once again

Haag-Bau, a civil engineering and road building contractor from Neuler, Germany, successfully utilised a Rockwheel G60 drum cutter to excavate trenches for a new sewage system, with machine operator Karl Krasny being impressed by the G60's performance. Featuring a high torque 20kW motor, the unit grinds through hard material without faltering, with the continuous cutting process resulting in perfectly aligned and smooth surfaced vertical sidewalls, irrespective of the depth of the trench. The sewage system was required at a new 1.8ha residential site, located in Kirchberg an der Jagst, Germany. When choosing just the right equipment for this task, Karl Krasny opted for the Rockwheel G60 based on its efficiency and the site's soil structure. The soil was a mixture of limestone and clay, which is a difficult combination in which to achieve vertical sidewalls, and beneath the clay and limestone, there lay hard rock. Using a hydraulic hammer to break the rock might have led to an uneven structure at the base of the trench, and given these circumstances, the desired square profile of the trench could only be achieved with the

Rockwheel drum cutter. Additionally, the productivity of the Rockwheel machine was found to be three times as much as that of a hammer (5m³ in 1h versus 5m³ in 3h for a hammer). The residual material created by the Rockwheel was of size < 3cm, which is ideal for use as backfill. The low noise and vibration profile of the Rockwheel was an extra benefit for both the operator and area residents.

www.rockwheel.com

LaBounty expands its demolition and scrap shear portfolios

US based Stanley Infrastructure, the owner of such established attachment brands as LaBounty and Paladin, has announced that LaBounty has added a new versatile solution to its demolition portfolio, the 'Multi-Jaw Demolition Tool' (MRX). Equipped with 360° degree rotation, the MRX is suitable for both primary and secondary demolition as well as offsite concrete processing. The MRX has a short centre of gravity for optimal control and manoeuvrability and features an interchangeable jaw

with options for a concrete pulveriser, concrete cracker or shear. Other highlights include open lower jaw for better penetration, dual rotation motors and replaceable wear areas. Also new from LaBounty is the 'Mobile Rotation Pulveriser' (MRP). With a design similar to the MRX, the new pulveriser boasts a dedicated concrete pulveriser jaw. Due to a lower weight and price tag, the MRP is a good option for the users who are seeking increased manoeuvrability and reliability. A pioneer in mobile scrap shear technology, LaBounty also expanded its MSD 'Legend Series' in April 2020, rolling out four new models: the MSD4000R, MSD4500R, MSD2000, and MSD1500R. The new shears feature 'InSite', an advanced telematics platform, which provides real time data to optimise shear performance and productivity. The attachments also come equipped with the 'Dual Max Indexable Protection' piercing tip, which defends the shear from wear as well as reducing maintenance and downtime. Enhanced jaw geometry offers up to 10% higher cutting force when compared to its forerunners.

www.stanleyinfrastructure.com



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Mantovanibenne and Inmalo celebrate 20 years of cooperation

This year Inmalo is celebrating 20 years as the UK dealer for Mantovanibenne, while also looking forward to its 75th anniversary in 2021. After returning from the war, a veteran of 311 Squadron, Lt. Arnost Polak started the business in 1946. With the war over, all the clearing and rebuilding resulted in the need for new tracked earthmovers with Inmalo initially supplying tracks, later moving into demolition attachments. Today Inmalo is well known in the UK industry for hydraulic excavator attachments and dust suppression systems. One of the flagship brands is the MBI attachments range, which includes scrap shears, concrete crackers, pulverisers, multi-systems, grapples and riddle buckets. “MBI produces a wide range of demolition attachments, with the MBI brand representing quality, reliability and productivity with a heavy emphasis on product development and leading patent technology. This is a standard we expect across all of our brand products,” says Inmalo’s CEO Charles Polak. Paolo Mantovani from Mantovanibenne echoed the sentiment by saying, “We are extremely proud of our long standing relationship with Inmalo in the UK. We have worked together for over 20 years building trust and have a great working relationship. The UK market is very important for MBI and we know that the customers are in the very good hands of Inmalo. We look forward to many more years of partnership.”

Grapples and shears are highly popular products from the MBI stable. The SGR grapple is designed specifically for demolition and the movement of heavy materials and has recently been upgraded. Changes have focused on major modifications related to hydraulic components, control sensitivity and upgrades to their rugged assembly. The ‘Eagle II’ scrap shears have proved to be a hit with many major demolition and scrap recycling contractors throughout the country. With a high power to weight ratio and extensive patented features, such as the speed valve and jaw clearance design, MBI

shears are renowned for high productivity levels. Concrete crackers and pulverisers have also been improved with a focus on interchangeable CRP and PP teeth plate designs. Last year MBI launched the ‘CC combi cutter’, which combines both cracker and shear for demolition of heavy reinforced concrete structures, all thereby providing Inmalo with one of the largest ranges of attachments available in the UK.

www.inmalo.co.uk

Simex prioritises drum cutters and crushing/screening buckets

Without a doubt, crusher and screening buckets are the signature products for Italy based Simex. Its VSE range

of screening buckets currently includes four models - VSE 10, VSE 20, VSE 30 and VSE 40 - suitable for 8t to 45t excavators. The output size of the material being screened can be varied remotely from the cab thanks to a patented hydraulic system, with the operator being able to adjust by upto +/- 40mm while operating the attachment. The shafts are made of various sized disks that generate intense ‘whirling’ of the material. This solution allows efficient processing of wet materials. Part replacement is rapid and does not require disassembly of the shafts. The CBE range of crusher buckets is available from the Italian manufacturer in five models for 8t to 55t excavators. The buckets come equipped with a rotor system, which ensures optimal performance when processing various types of materials, in particular construction and demolition waste. The toothed rotor is powered by high displacement radial piston hydraulic motors, which results in a high crushing force, with a patented automatic system inverting the drum rotation in case of blockage.

Drum cutters are the other product group that Simex has prioritised in recent years. Simex’s TF double head drum cutters are powered by hydraulic direct drive piston motors, with a redesigned frame reducing the distance between the drums, thus increasing the working area. The two biggest models in the range - the TF 2500 and TF 3100 for 40t to 70t excavators — are particularly recommended for demolition applications. The TFFV series of vertical drum cutters is designed for profiling as well as pile cutting and removing iron and steel residues. The series consists of three models: the TFFV 400, the TFFV 600 and the TFFV 800 that fit 7t to 25t carriers.

www.simex.it





NPK beefs up grapple offering

This year, Japan based attachment trendsetter NPK added a new model to its proven DG series of demolition grapples. Weighing in at 1.45t to fit 16t to 26t carriers, the DG-25 fills the void between the existing DG-20A and the DG-30 models. The DG-25 comes with redesigned arms mounted on the DG-20A's frame which offers increased ruggedness and higher operational safety. Dirt and waste are kept out more reliably and hydraulic components are better protected against damage. Thanks to the powerful cylinder, the new grapples reach a maximum closing force of up to 60kN (at 35Mpa).

www.npke.eu

Demolition grabs galore at Promove

Italy based Promove has been manufacturing excavator attachments for demolition and recycling applications since 1989, with demolition and sorting grabs having always been a focus for the Italian company. Today its portfolio comprises of over 25 models, ranging in weight from 75kg to 13t. The Promove grabs are recognisable for their sleek low slung design, with twin hydraulic motors that ensure better power distribution and manoeuvrability thanks to the inclined top plate. The grabs' geometry and cylinder kinematics allow lowering stress on the mainframe and pins by up to 50%. Other



highlights include one piece perforated shell skins in Hardox for durability, continuous 360° hydraulic rotation, changeable and reversible wear blades and a protection valve against pressure peaks and overflow.

www.promovedemolition.com

Hammer introduces new shear and grapple series

Italy based attachment specialist Hammer, now a part of the multinational Kinshofer Group, has further strengthened its extensive product offering with the addition of the KSC scrap shear series. The new attachments are specifically designed for cutting massive

steel structures such as steel plates and beams when demolishing a building, but are equally useful in scrap recycling yards. The KSC series includes five models ranging in operating weight from 3t to 50t. Powered by a twin motor, the 360° rotatable shears are extremely powerful and versatile, with the cylinder being mounted backwards to protect the rod (the part most susceptible to damage and wear). The range's three bigger models - KSC22, KSC32 and KSC42 - feature a double ball slewing ring and an optional speed valve. The steel blades can be indexed four or eight times.

Also new from Hammer is the GR 'Multi-Purpose Grabs' series. The grabs are produced at the company's manufacturing facilities in Puglia, Southern Italy, and over time they have become one of Hammer's signature products. Within a space of just one year, Hammer has sold some 3,000 units to its customers all over the world. The GR series currently consists of 10 models suitable for 1.5t to 80t excavators. Thanks to the 'NOX Tiltrotator' from Kinshofer, users are able to enjoy the benefits of 2 x 50° tilt angle. Other highlights include 400HB wear blades and jaws, integrated rotation, fully protected cylinder and frame. Three types of jaws are available from the Italian manufacturer to fit the specific requirements of a job at hand. The 'standard jaw' features a blade on both jaws and is designed for material handling and recycling applications. The 'demolition jaw' is suitable for both small sized demolition and recycling jobs. The 'teeth jaw' boasts teeth on its lower part turning the grapple into a multitask tool capable of performing a wide range of tasks from excavation to material handling.

www.hammereurope.com



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Trevi Benne upgrades grapple portfolio

Trevi Benne, an attachment industry stalwart from Italy, has bolstered its product offering with the addition of the new PMZ series of demolition and sorting grapples. The series' main feature is the HD 'heavy-duty' rotation unit (available on models of 1t upwards) driven by two hydraulic motors. Building on the PMG forerunner range, the redesigned PMZ grapples are more lightweight and higher performing. At the moment the series consists of 10 models, varying in weight from the 405kg to 4t. Each model is available in either 'C' or 'S' version. The 'C' version (which stands for 'closed jaws') is recommended for sorting out demolished material. The 'S' version (available on request) features 'slatted' jaws being designed for the demolition of light (or dilapidated) structures built from masonry or wood.

www.trevibenne.it

Indeco aims to meet increasing demand for mini attachments

Indeco, another heavy hitter from Southern Italy, has launched a small sized rotating pulveriser designed to meet the increasing demand for mini excavator attachments in North America. Despite weighing just 570 kg, the new IRP 5 X has a large hydraulic cylinder and one of the largest jaw openings in its category, making it both stronger and more manoeuvrable than most models in its class. The use of Hardox steels and interchangeable teeth ensure maximum resistance and durability even on long protracted jobs under the toughest of conditions.

www.indeco.it



Ditch Doctor: a new groundbreaking drainage solution

Ditch Doctor Atlantic Ltd. is a family owned supplier of mobile drainage solutions based in Nova Scotia, Canada. The company was started by Adam and Carole Fisher in 2002. Adam Fisher learnt the nuts and bolts of the drainage business from his father Gerald as a young boy. It was also his father that taught the young Adam the principle of three Rs (reduce/re-use/recycle), which he would later base his company's modus operandi on. Adam's wife Car-



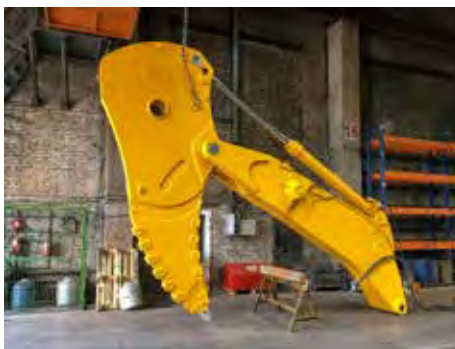
ole Fisher has been working as the company's operations director since day one, managing all day to day tasks. A Ditch Doctor is essentially an excavator attachment that is designed to create, restore and maintain ditches. One of the major benefits of the Ditch Doctor method is that the spoil is self-levelling with no additional handling required. It produces an immediately viable ditch, which significantly reduces impact on the local environment. The vegetation on the ditch slope is not disturbed, preventing erosion of the evenly distributed spoil back into the ditch. The Ditch Doctor method allows creating a two stage ditch, with the attachment being capable of operating up to 1m of water.

Having built and tested the first prototype for drainage cleaning applications in the early noughties, the Canadian company launched commercial production of the DD22 model in 2017. Designed for 13t to 25t excavators, the DD22 comes with an adaptable scroll case (wet and dry), speed control allowing variable distribution of the spoil, variable displacement motors and a customised quick coupler. According to the manufacturer, a Ditch Doctor is three times faster than conventional drainage methods. Last year, the company expanded its offering with the addition of the smaller DD15 model designed for 4t to 12t carriers. With the Ditch Doctor brand fast gaining recognition across North America, the company is now ready to offer its products to the international audience.

www.ditchdoctor.ca

Concrete crushing beauties from the 'city of brides'

Professional LLC is a young vibrant manufacturer of excavator attachments for the mining and construction industries based in the Russian city of Ivanovo.



Located some 250km from Moscow, Ivanovo enjoys the reputation of being the textile capital of Russia. Since most textile workers are women, the city came to be known informally as the 'city of brides'. Originally established as a distributor of Daemo Engineering's demolition attachments in 2006, the budding company soon switched over to manufacturing. Over the course of the next thirteen years, Professional developed by leaps and bounds. By the time the Covid crisis struck, the manufacturer had opened 34 affiliates and depots across Russia and had begun to supply its attachments to some 50 countries all over the globe, including the US, Australia, New Zealand, Brazil, France and Israel.

The company now produces a comprehensive portfolio of excavator attachments ranging from buckets to breaker chisels to clamshells and log grapples. On the demolition side, mechanical concrete crushers are one of the company's signature products. Robust, high performing and low maintenance, mechanical crushers from Professional represent a viable alternative to hydraulic attachments. The simple and rugged design features two clams activated by the excavator's cylinder. With no additional hydraulic circuit required, cost of ownership is much lower when compared to conventional solutions. Tooth rippers are another product that the Russian manufacturer has been recently focusing on. Made from high tensile wear resistant steel, tooth rippers can be used for a wide variety of tasks including demolition, loosening of hard soils and rocks, pavement removal and stump uprooting.

www.pb-professional.com





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ROCKSTER R900 IMPACTOR

The number of demolition projects has been increasing steadily over the years, and the disposal of construction waste has become more and more expensive. This meant that the next logical step for Martin Meier Erdbau was the purchase of a mobile crusher so that demolition material could be recycled anywhere and at any time.

Martin Meier's decision to purchase exactly the crusher that he had happened to see when holidaying was made quickly. It was a Rockster R900 impact crusher, which impressed immediately due to its compact transport dimensions of 9.6m in length, 2.5m in width and 3.2m in height and a weight of only 25.5t. Demolition, earthworks and transport have been Meier's specialties since the company's founding in 1977. With a team of 16 employees and a fleet of 50 or so construction machines and trucks, the Bavarian company is extremely well positioned, although until the purchase of Rockster R900, the recycling of construction waste had been outsourced.

Expansion to contract crushing business

"By purchasing our own mobile crusher, we are now not only able to immediately recycle construction materials from our construction sites, but we can also increase our revenue from renting our mobile crushing plant," says Martin Meier. Transport with one of the company's trucks is particularly beneficial for the contract crushing business. In order to work in the natural stone process-



Not only construction waste, but also sandstone, limestone or granite are processed at the 7,000m² company site.

ing business, processing extremely abrasive stone in a wear friendly manner, the purchase of a jaw crusher unit is also being considered using the Rockster 'Duplex' system, which sees the impact crusher being converted into a jaw crusher by exchanging the crushing units within only a few hours.

Simple handling and the optimally defined end-material

Martin Meier's son Max and Martin Loschge are the main machine operators of the crusher. "I particularly like the easy handling of the crusher. I can conveniently control the speed of the vibrating chute in the feed hopper, main discharge belt as well as the rotor and

motor speed. All this done from the excavator via radio remote control," says Max. "The final material is nice and coarse grained and therefore very stable and compact when installed." The company mainly uses the recycled material as a substructure for large halls, private houses or in road construction. Thanks to Rockster's hydrostatic drive and the double apron design, a very precisely defined final product size can be generated, even without an additional screening system. The two impact aprons are set separately, which means that in the event of an overload situation in the crushing chamber, the upper impact apron opens, but the lower one remains in the set gap position and therefore hardly any oversized material is produced.

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Bringing exoskeleton solutions to the construction industry

The Hilti Group has entered into a technology partnership with Ottobock SE & Co. KGaA to develop exoskeletal systems. Such solutions open new possibilities in terms of worker protection and productivity representing a new solution for the construction industry.

The construction technology group Hilti and the medical technology company Ottobock are combining their know how in the fields of safety, health protection and biomechanics to expand their portfolio of ergonomic solutions. Both companies have decades of experience in their respective fields and will cooperate in the area of research and development in the future. "Exoskeletons are an important trend having great relevance for us. They provide relief for physically demanding tasks, such as those performed on construction sites every day. In Ottobock we have the ideal partner to combine our user protection and ergonomics knowledge with 100 years of biomechanical expertise. Our technology partnership will serve as the basis for the development of additional innovative and customer oriented systems," explains Johannes Wilfried Huber, head of Hilti's Diamond Systems Business Unit.

"We are delighted to be opening up a new area of application together with Hilti. We are building on our experience gained from more than 500 successful exoskeleton projects, including in the automotive industry and various trades. There is a great deal of potential for solutions that reduce the physical strain on workers in the construction industry. We want to jointly expand this pillar in the coming years," explains Dr. Sönke Rössing, head of Ottobock Industrials.

Hilti will launch the first joint product, the EXO-O1, in autumn 2020. It is a passive model that does not require an energy supply. The weight of the arms is transferred to the hips via the forearm supports using mechanical cable pulling technology. Independent studies and Ottobock research have shown that this reduces the peak load on the muscles and relieves shoulders by up to 47%. Exoskeletons can therefore make a significant contribution to health protection, particularly regarding work performed above shoulder level and during overhead work. Fatigue is also reduced meaning that this type of work can be carried out over a longer period of time with much greater productivity.



KOMATSU EUROPE INTRODUCES NEW PW158-11 WHEELED EXCAVATOR

Komatsu Europe has introduced the new PW158-11 wheeled excavator which delivers great lifting capacity in an astonishingly compact package.

Designed and developed in Europe, the PW158-11 taps into 100 years of Komatsu development and manufacturing know how to deliver a product built exclusively for European customers. "With the all new PW158-11 Komatsu adds a strong but compact lifter in the 16t wheeled excavator range," says Michael Wadsack, product manager at Komatsu Europe. "Based on customer feedback we developed this machine for narrow, urban jobsites offering compact dimensions with the lifting performance which are usually offered only by one class bigger machines." The new 16t short tail machine has a swing tail radius of only 1,900mm but can lift more than 5,000kg over the front or rear without stabiliser. With the compact dimension and small turning radius, it is the ideal machine for heavy work at narrow jobsites.

Versatility and comfort

The boom suspension system (ECSS) provides a significant increase in comfort when travelling over bumps. The operator's seat comes with suspended joystick consoles, premium cushioning, auto weight adjustments and pneumatic lumbar support. Joystick Steering (JSS) is provided, as an option, for outstanding operator comfort and control, with new and easy to use operation switches. An upgraded high resolution TFT-LCD wide-screen colour monitor panel, with 25 built in languages, provides key machine metrics including AdBlue e-level, fuel consumption, and performance data.

For increased versatility, the PW158-11 can be equipped with either a truck type automatic hitch or a car ball type hitch for a trailer up to 8t, with all necessary electric and hydraulic hook ups. The trailer's functions can then be operated from the cab's joysticks.

Easy serviceability

The excavators are equipped with the exclusive Komatsu EMMS (Equipment Management Monitoring System) which has enhanced diagnostic features that give the operator and technicians greater monitoring and troubleshooting capabilities. EMMS also continuously monitors all critical systems, preventative maintenance and provides troubleshooting assistance to minimise diagnosis and repair time. It can be accessed along with all essential machine functions on the cab's monitor screen and set in the blink of an eye.

The AdBlue tank can be refilled from a walking platform close to ground level, and both the refuelling and the auto lubrication pumps were relocated to be more accessible. HCU piping layout was standardised to be the same on all new PW158, PW148, PW160 and PW180 machines. Komatsu machines are designed for easy maintenance and the PW158-11 is no exception. An 'auto grease' function can be ordered, and regular engine service points, greasing points and filters are centralised, being quickly and safely accessible. 'Komtrax' telematics and the Komatsu 'Care' maintenance program additionally offer excellent fleet management and support, protect the machines against misuse and provide maximum efficiency and uptime.

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Buffalo Turbine launches **'DISTRICT DISINFECTOR' SERIES**

Buffalo Turbine has announced the launch of its District Disinfector series. This is the latest in its line of sprayers designed to aid municipalities and commercial operations in the fight against the Covid-19 coronavirus.

The new easy to deploy self-contained sprayer may be used with any truck or utility vehicle, being capable of disinfecting large areas. Applications include cross walks, benches, lamp posts, mail boxes, bus stops, streets, side-walks, building façades, park equipment and stadiums. The sprayer is compatible with EPA, NYS DEC, CDC and WHO registered and approved disinfectants. The District Disinfector series requires significantly less manual labour to apply disinfectant and feature the Buffalo Turbine 'Turbulent Air Sprayer' with rotary atomising nozzle. The company states that turbulent air ensures maximum coverage of areas missed by many conventional sprayers, providing more complete and faster coverage that also assures workers have minimal exposure to hazards.

The District Disinfector series is comprised of four models each tailored to different needs. The BT-CKB4-MDSS with carburetted engine; BT-CKB5EFI-MDSS with electronic fuel injection; BT-CKB3SQ-MDSS with two turbines and dual spray nozzles, and the BT-MEGA-MDSS, the most powerful model. The series is self-contained, engine driven and can be used with any pickup truck or utility vehicle. It features turbulent air for complete coverage and has a droplet size of 50-200 microns, a horizontal throw of up to 38m, a vertical throw of up to

30m and an adjustable atomising nozzle flow rate at 0-45l/min. The models spray any compatible disinfectant being designed to disinfect large areas with minimum human exposure using the same technology which combated the Zika virus in 2016. Trailer and tank options are also available.

Buffalo Turbine, headquartered in Springville, New York, has assisted national defence and public health organisations control the spread of virus and disease outbreaks for 75 years through its sprayer products. "The newly released Buffalo Turbine Sprayers for disinfecting large areas is just a minor adaptation of existing Buffalo Turbine Sprayers," says Louis Horschel, owner Buffalo Turbine. "Buffalo Turbine has been a world leader in spraying technologies for wide area vector control for 75 years now. Our expertise in this arena has led to the development of these new models.

"With our engineering and manufacturing in Springville, we were able to quickly marry our proprietary 'Rotary Atomising Nozzle' with our line of high powered blowers. Our designers and engineers were able to put together a self-contained blower to meet the current needs for efficient disinfecting capabilities on a broad scale. Historically where there has been a need for spraying to mitigate a public health problem, thousands have turned to Buffalo Turbine to solve the problem. Worldwide, ask your mosquito and vector control professionals, they can attest to Buffalo Turbine's products. The trusted name in public health 75 years and counting - Buffalo Turbine."

Genesis Attachments expands its 'Razer Demolition' tool offering

Genesis Attachments has announced the new GDT 590, the largest Razer Demolition tool in the line that's now available in four models. Featuring a lighter weight design, the GDT Razer is optimised to fit on standard and most high reach excavators. The GDT 590 extends the minimum excavator weight to 55t, up from the 20.5t, 30t and 41t minimum excavator weights of the GDT 190, 290 and 390 respectively.

The GDT 590 Razer also increases the line's versatility to meet customer demands in applications such as general and bridge demolition, concrete recycling and C&D processing with its 1,320mm jaw opening, 1,181mm jaw depth and over 3.6m reach. To further enhance its processing capability, the GDT's upper jaw passes through its lower jaw which has an open relief area that allows material to easily pass through

and prevents jamming. All GDT models feature a short, flat top head with bolt on bracket that simplifies installation and switching the Razer between excavators, customisable quantities and locations of crushing teeth. The latter are interchangeable, front to back reversible and bolt on for longer life and lower cost of operation.



New Bobcat track loader

In the UK, fly tipping is an increasing problem. Government reports show that in England alone, local authorities dealt with over 1M fly tipping incidents from 2018 to 2019, an increase of 8% over the same period in 2017/2018 and the highest in a decade. Another problem faced by local authorities in the UK is the removal of asbestos with a recent report estimating there are 6Mt of asbestos inside 1.5M buildings in the UK.

The removal of these materials requires the expertise of specialist companies such as D J Cleaning Ltd, based in North Newbald in East Yorkshire, which holds a full three year licence from the UK Health & Safety Executive to remove all types of asbestos. Formed in 1967, D J Cleaning also offers a wide range of site, property and garden clearance services, including the removal of rubbish and often hazardous materials resulting from fly tipping.

To meet the increasing need for a new compact solution for this work, D J Cleaning has just purchased a Bobcat T450 track loader from AMS Bobcat, the Bobcat dealer for East and South Yorkshire and Lincolnshire in the UK. Dan Stephenson, owner and director of D J Cleaning, said: "Because it is illegal, much of the fly tipping takes place in the middle of the night in hidden away places, such as gulleys, narrow, out of the way lanes and overgrown areas, and we have been looking for a solution for work in these tight and/or inaccessible places, where larger vehicles cannot access. The compact size of the T450 now allows us to take the machine to site on a trailer and drive it right up to the rubbish/waste materials and remove them with the Bobcat grapple attachment also supplied by AMS and load it into another trailer for removal from site."

Harvey Stephenson, Dan's son and a company director, has taken over much of the day to day running of the business. He said: "The new T450 is a perfect fit with our existing Bobcat T2250 telehandler and E16 mini excavator. Both of these machines have been great for us - I call the T2250 the 'pocket rocket' - it has serious poke for working in our yard and on site for driving into piles of debris we have to remove." Paul Hyslop, Bobcat district manager UK North, commented: "We are delighted that D J Cleaning has expanded its Bobcat fleet with the addition of the new T450. The company provides a great demonstration of how the diverse products in the Bobcat portfolio can be brought together to provide an unmatched selection of solutions that works for a wide range of different applications and customers."

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SENNEBOGEN 355 TELEHANDLER AND 818 E SERIES MATERIAL HANDLER WORK AS A TEAM

Wood is a component part of many products and one of the most important renewable resources of our time. It is far too valuable to be left unsorted and sent to landfill. One customer of the Sennebogen dealer Molson Group in England has taken on this problem and recycles waste wood with the help of two Sennebogen machines: the 818 E and the 355 E.

In Coventry, England, work is underway with waste wood being pre-sorted for further processing with a shredder being used to produce different sizes of valuable raw material from the discarded pieces. A mobile material handler 818 E from Sennebogen is used to load the shredder with bulky pieces of wood that are brought

over by the 355 E telehandler. Equipped with an elevating comfort 'Maxcab', the 818 E's operator has a great view of the shredding plant at a viewing height of 5.50m. The non-slip platform and the railings by the entry provide additional safety on the way up to the cab and on the way back down. An additional protective guard on the windshield, and floodlights on the equipment, also contribute to a safe environment for the operator.

While the material handler is loading mountains of waste wood into the shredder in a fast work cycle, the Sennebogen 355 telehandler carries out various other tasks. These include moving the wood supplies to within the reach of the material handler and keeping the yard

tidy. However, its main job is transporting the chopped wood pieces to the storage area and stacking them up there. There are three stacks, sorted by the size of the material. They range from coarse woodchips to fine sawdust, which, amongst other things, is reused in pellet form as bedding for household pets. The large bucket, which has a loading capacity of 4m³, means the operator can get the job done quickly and with fewer trips.

Due to the dusty environment from the shredding process, there is a risk to humans and machines with emissions and a build-up of deposits in filters or engines posing a fire risk. In order to best protect the machinery and people, Sennebogen machines have standard equipment that provides benefits for both. The Sennebogen 355 E telehandler has a standard reversible fan which means that the engine area can be regularly freed of dust and dirt by means of a strong blast of air from the outside. This ensures the engine maintains its optimal cooling capacity and protects it from overheating, keeping it productive and reliable.

The operator is protected from various environmental influences by the 'Multicab' on the 355 E telehandler and the Maxcab on the 818 E material handler. Whether it is raining, cold, hot or dusty, thanks to standard air conditioning the operator can concentrate on working without distractions in a cab adjusted to the temperature that is best suited. The telehandler's elevating cab also has enhanced visibility.

These and other features, such as the large steel design and the telehandler's large breakaway torque at wheel loader level, ensure smooth operation when processing wood even in multi-shift operations. The Sennebogen sales and service partner Molson Group and its Coventry customer have been delighted that the 355 E and the 818 E making such a good team.

Rockster R1000S increases Sedlmaier's flexibility and efficiency

In early 2020, Anton Sedlmaier GmbH, from Starnberg in Bavaria, decided to purchase a 30t impact crusher, first using it on a large scale project in the centre of Tutzing, where a six story building was razed to the ground.

With a team of 30 people and 50 years of history, Anton Sedlmaier GmbH is a well-known demolition and earthwork contractor in the Starnberg and Munich areas. Hence the Ehret & Klein planning office turned to the specialist company for a project in the centre of Tutzing which involved demolition and preparation of the last Boehringer building in the centre of Tutzing.

Until February of this year, Sedlmaier rented mobile crushers to process construction waste. The purchase of the Rockster R1000S with hydrostatic drive and an inlet opening of 960mm x 720mm was an important step forward. "Our machine operators are enthusiastic about the new mobile crusher, they praise the easy handling and the good accessibility for maintenance work. We are now much more flexible and efficient in processing demolition debris and natural stone," says Anton Sedlmaier.

The demolition project is a test of toughness for the crusher as Sedlmaier's site manager Markus Falschlunger



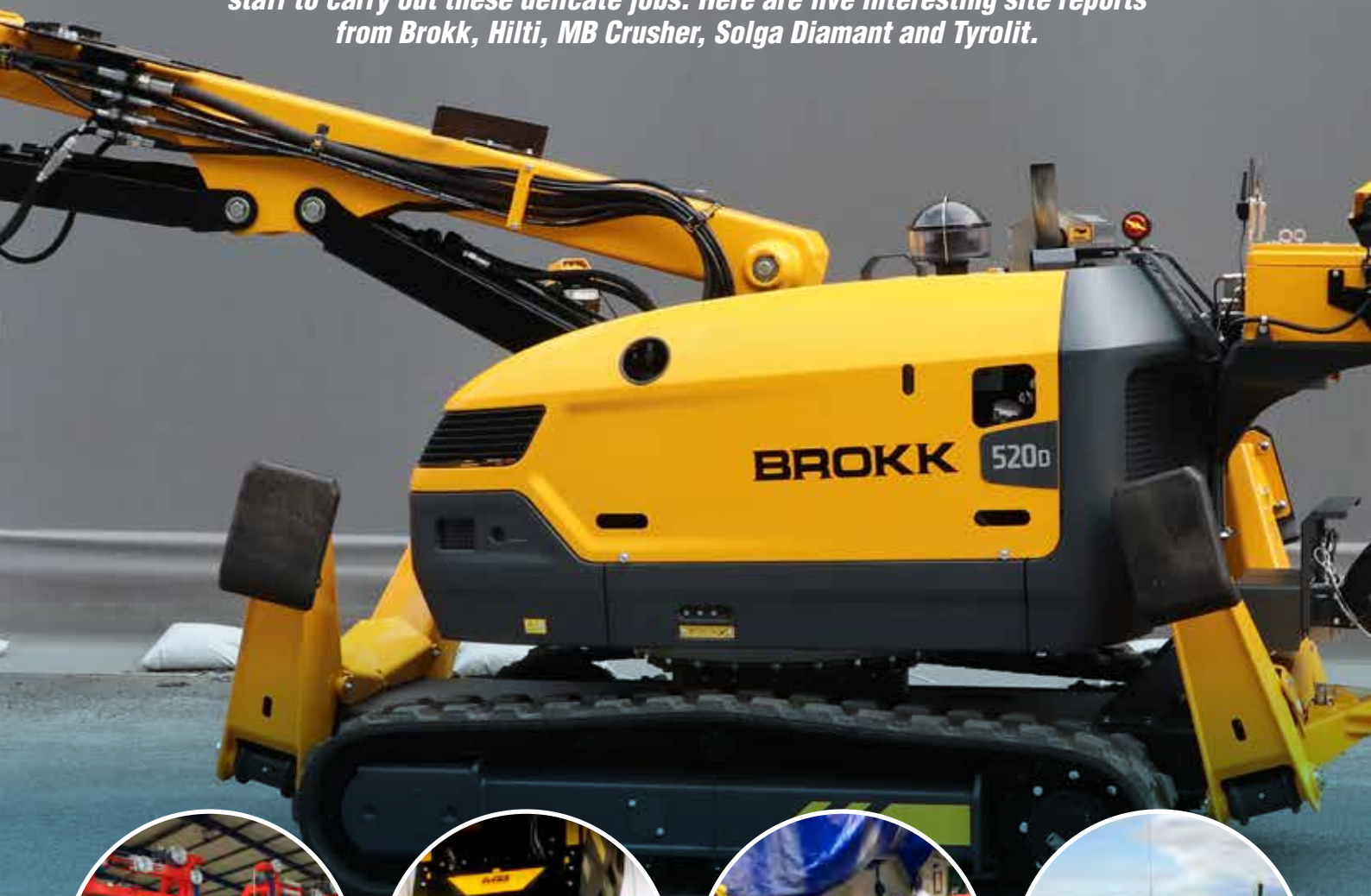
explains: "The challenge at this construction site is on one hand the strong reinforcement of the concrete - a lot of iron was used in the construction of the building - on the other hand, we are right in the centre of Tutzing where we have to keep the noise level as low as possible." The standard and height adjustable magnetic separator of the R1000S crusher has proved to be a valuable aid in the removal of the iron parts, and, if necessary, the fine, earthy material can be ejected with the hydraulically foldable side belt.

"We mainly produce 0/50 mm final product, which is used for the substructure. Because the proportion of coarse and fine material is optimal, the recycled concrete is well suited for road construction since it forms a solid foundation," says Falschlunger. Machine operator Tobias Poschinger particularly praises the fully hydraulic crushing gap adjustment of the R1000S: "I can easily set the crushing gap on the display, it is quick and uncomplicated. I also think it's great that almost all the functions of the crusher can be controlled via remote control."

Professional demolition and concrete cutting methods

IN NUCLEAR AND OFF SHORE ENVIRONMENTS

Advanced demolition and concrete cutting methods and equipment is often the only safe and efficient solution to carry out sensitive tasks in nuclear and off shore environments. But of course it also takes a very professional staff to carry out these delicate jobs. Here are five interesting site reports from Brokk, Hilti, MB Crusher, Solga Diamant and Tyrolit.



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DEVELOPMENT OF BROKK ROBOTS HAS BEEN

over 40 years in the making

Two tailor made Brokk robots were recently delivered to a customer in Asia. Equipped with completely new features to meet the high standards required for safe decommissioning, Brokk has once again delivered a world leading special solution based on over 40 years of development.

For any challenges that may occur, the recently delivered robots are equipped with a new solution for remote controlled manoeuvring up to 3,000m away, with three different control systems and specially developed software for efficient gamma detection. It's hard to think of an environment where remote control operation is more critical than in a nuclear plant as the spread of radiation is unpredictable and in order to assure the safety for the operators, long distance manoeuvring is crucial. Through the development of a relay station Brokk has made it possible to efficiently operate the robot from a 3,000m.

The relay station is a standalone unit that is powered by a battery pack and holds a 5m telescopic mast. The mast is equipped with a 360° camera and an antenna that provides the robot with a 1,000m remote controlled line of sight that is completely wireless. The station is attached to the robot with a hydraulic trailer connection designed to unhitch with the press of a button from the control room.

Radiation detection

When facing decommissioning inside a nuclear plant and when wireless operation with the help of the relay station is not possible, Brokk has equipped the robot with an intelligent cable reel that adjusts the length of the optic cable in order to prevent signal disruption. Equipped with four radiation protected cameras, two of which are 'PT' (pan/tilt) controlled, Brokk's own camera control system enables real time manoeuvring of the robot. Thanks to the option of manually controlling the PT cameras, the operator can manoeuvre the robot through any environment. Navigating through

unknown territory or performing complex tasks usually means the need for different attachments but the cameras, combined with the quick hitch solution, allows for such activities as remote tool change, without the need for people to be involved.

Handling efficiently radiation waste is easily undertaken as the robot also has a gamma detector which plays an important role in determining which area or material that needs immediate attention. By finding the hotspots with a mobile detector, the work is performed much more efficiently. The software used has been developed by Brokk being purpose designed for the collection of data and has the potential to be customised to meet customer chosen alarm thresholds.

Hybrid power

Damage caused by radiation is devastating, not only to human life but also to the surrounding area. Human safety should always be the starting point when products in the nuclear industry are developed and

to make sure that no people are exposed to radiation, whether it be decommissioning or in the event of a disaster, a high tech product needs to be as reliable as possible. One example of how Brokk assures reliability is via radiation protection for sensitive components. All electronic components, including video equipment as well as the three different redundant control systems are all protected to withstand radiation in order to increase the life span of the robots. Brokk has also ensured that there is a backup solution in case of emergency with a diesel battery hybrid robot equipped with a redundant control system that enables operation if the two main systems fail enabling evacuation.

Taking control

Manoeuvring is done by one operator from a workstation with user friendly and ergonomic controls with joysticks, levers and switches all close at hand. No matter where the control room is placed, a single desk makes the setup easy with Brokk integrated software and components being tailor made.

Thus in the aftermath of the disaster in Fukushima, the equipping of emergency services with equipment that is specially adapted for use in radioactive environments has increased. Fortunately, nuclear disasters do not occur often, but when they do, the ability to quickly install custom equipment can play a crucial role no matter how extensive an accident becomes. Being able to effectively block radiation sources and minimise spread can notably reduce exposure to both people and surrounding area. Remote controlled robots now play a significant role and are in many situations crucial for the nuclear industry.





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Hilti bespoke diamond wire saws developed for complex

DECOMMISSIONING ENVIRONMENTS

Companies in the decommissioning field daily face critical challenges. Here they are faced by such challenges as cutting components with an ultra- high density that simply cannot be cut by most existing technologies. Additionally they must ensure the health and safety and productivity of operators in critically dangerous environments as well as reduce the volume of nuclear waste which requires long term disposal/storage.

The above problems are not addressed with standard or modified standard wire machines, nor by alternative cutting methods such as torch, plasma, water jet, band saw or laser cutting. Not only do these alternative methods simply fail in cutting large, complex materials, even when they can cut, they often require significant manual labour in the 'hot zones' and result in significant additional contaminated waste. Hilti has devised solutions which have evolved from modified standard wire saws to fully bespoke wire saws creating fast, reliable and high end solutions.

Highly innovative differentiated solutions

Hilti's goal has been to increase productivity and safety whilst reducing waste and complexity. Its bespoke wire saws accomplish this and deliver other benefits to customers. These include providing a low risk of operator error as the system is equipped with Hilti 'CutAssist' technology as well as minimising any risk to the operator themselves as the machinery can be operated remotely and cutting can be dry, without liquids or aerosols. The equipment has a fast set up and delivers an increased

cutting speed of up to 70% through increasing the wire speed and tension with robust components coming with a unique double layer vacuum brazed wire. Efficiency is also improved with increased wire life of up to 70% through increasing the cutting speed and lowering the vibrations and wire contact time. All this means that Hilti customers can now perform complex decommissioning applications on their own, giving them more flexibility and thus more productivity.

In summary, with Hilti's innovative solutions, companies in the decommissioning industry can successfully accomplish their applications much faster, with much higher safety and much lower waste than they ever could before. This increases their productivity and profitability whilst decreasing any risk to workers or to the environment.

Below are a few examples of Hilti's experiences in the nuclear and offshore industry.



For one of the main nuclear players in France, Hilti had to build a solution for miscellaneous dry steel cutting in a nuclear power plant with a maximum material size of 2.5m x 2.5m. The solution that Hilti developed is a bespoke portal wire saw with a cutting gap of 2.5m x 2.5m with the dry cutting being done with a vortex wire cooling system and closed loop Hilti vacuum brazed diamond wire



For another renowned player in the nuclear industry in Slovakia, Hilti had to develop two of the same bespoke portal wire saws for the miscellaneous steel cutting of the primary and secondary circuit in a nuclear power plant. The bespoke portal wire saws that Hilti has developed have a cutting gap of 2.5m x 2.9m and can be moved horizontally on rails to move the saw over the working area. Both saws are mounted in containers for contained wet vertical cutting with a water collection and filtration system. They are both used with closed loop Hilti vacuum brazed wire to cut materials with a high density.



Another company working in the nuclear decommissioning field in Germany had number of steam generators and other miscellaneous steel components that needed to be cut in situ. They had a diameter of 4m and steel wall thickness of 200mm, with 16,000 steel tubes inside. For this complex application, Hilti designed a bespoke wire saw for dry horizontal cutting which could be held by an overhead crane. To guarantee that the largest cut could be done with one wire, the bespoke wire machine was equipped with wire storage for a closed loop wire of 173m length and vortex wire cooling. Additionally a modular portal was designed to cut various steel components with a maximum size of 3m x 3m or 6m x 3m, being designed for dry horizontal and vertical cutting with vortex wire cooling. Both of the saws were also equipped with walking platforms for easy maintenance and wire replacement.



For offshore contractors, Hilti developed a full range of machinery and consumables for underwater operations, being operable from a vessel or by ROV.



Together with a partner in the UK, Hilti developed another bespoke portal wire machine for one of the key players in nuclear decommissioning to be used at Sellafield, one of the biggest global nuclear decommissioning projects. The portal wire saw has a cutting gap of 2.5m x 2m and was developed for vertical and horizontal dry cutting. With its wire storage it can handle miscellaneous large steel components which are brought to the machine by the rotation and translation table. Thanks to its 'nuclear paint' the machine can also be chemically decontaminated. Hilti decommissioning solutions are becoming recognised by an increasing number of influential companies in the Nuclear and offshore industries as the above projects demonstrate.



Industry experts join forces to develop **UNIQUE DECOMMISSIONING PROCESS**

Humboldt Bay Power plant operated commercially from 1963 to 1976, consisting of two steam generating units (Unit 1 and 2) and a boiling water nuclear reactor (Unit 3). The decision to decommission Unit 3 was taken in 1983 after it was considered no longer cost effective. The two steam generating units began operation in 1956 and were shut down in 2010 when the Humboldt Bay Generating Station, located at the same location, replaced the former generation capacity of Units 1, 2, and 3.

In 2009, active decommissioning of the former reactor vessel, nuclear systems, and caisson structure began of the Humboldt Bay Power plant. This was a complex project that required several industry experts to come up an innovative solution which ended with the remediation of the plant's seawater and hazardous materials as well as a full site restoration. The decade long process was slow, requiring accuracy with the minimum amounts of nuclear waste going to the disposal site, while maximising materials being sent for disposal, reuse and recycle.

The water tight caisson was a water storage containment chamber made of reinforced concrete surrounding the reactor vessel. It provided an economical underground structure for housing a portion of the Humboldt Bay Nuclear Plant. In addition to housing the nuclear steam supply system, the caisson also served as part of the pressure suppression containment system. Due to radiation levels and confined spaces, the complete removal of the reactor caisson needed to meet C-14 contamination standards. Before workers began the arduous task of breaking up the heavily reinforced concrete caisson a cement slurry wall had to be built to prevent water intrusion so that the demolition could be done safely.

MB solution

David Gilson, the waste project manager, chose to use two MB Crusher BF90.3 to process the large piles of concrete waste, reducing it to <75mm within the facil-

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ity, with the restricted space not being an issue for the compact mobile jaw crushers. The MB's units were selected due to the high quality of the product and customer service. David Gilson explains: "The crusher buckets are very, very quiet, which is impressive for us here with radioactive material. One of the most important parts is we needed to keep the dust down. It can control dust submissions, and (MB's) spray system they attached to their equipment did a phenomenal job. We actually had a loader operating near (the crusher) and the loader actually created more dust than the crusher bucket during crushing operations."



SOLGA DIAMOND TOOLS USED SUCCESSFULLY AT SLOVAKIAN NUCLEAR PLANT

As a condition for joining the European Union, Slovakia was required to deactivate the two reactors at the V1 plant of the Bohunice nuclear power plant with the first reactor being shut down at the end of 2006.

The most difficult part of the shutdown of V1 was to access the primary circuit. What seemed hard work at the beginning became an easy going demolition process due to the diamond tools of Solga Diamant, together with the knowledge and excellent performance of the company Hydroservice. The latter company was contracted to demolish around 700m³ of concrete structures to ensure the smooth dismantling of the large components from the primary circuit located in the hermetic zone. This included generators and reactor pressure vessels in the reactor hall.

Hydroservice has undertaken other specific projects relying on Solga Diamant products. They have found the company to be very flexible and helpful in finding the right diamond tools for these complex jobs. For this project, not only diamond wires were required, but also drill bits and wall saws which could cut very hard concrete with large amounts of steel liners and a very abrasive top layer of concrete. This project had to be planned to the smallest detail as there was no chance

for any mistakes, not only due to the short period of time, but also for safety reasons.

As the work took place in a controlled area where radioactive waste was located, all the tasks timings' had to be minimised as much as possible. Thus it was essential that the solutions arrived at saved time not only when drilling and sawing, but also when it came to taking care of the tool itself. To make it more difficult, one significant issue was the small amount of water permitted, as concrete and sludge could become contaminated with radioactive components.

The scope of project was divided into parts: cutting of the handling openings; demolition of the reinforced concrete pedestals under the SGs (steam generator); demolition of all of the reinforced concrete pedestals standing in the trace of the rail track determined for the SG shift operations; cutting of 60 pedestals with a wire saw and dismantling of six reinforced decks of the SG erection hatches, each weighing 120t.

The ceiling was made from monolithic reinforced concrete B330 (C20/25) with 9m x 5m mounting openings. These were covered by removable reinforced 900mm concrete removable slabs weighing 120t. Supporting the structure of slabs were welded carbon steel profiles, whilst a steel frame was filled with monolithic concrete. The removable slabs had a thickness of 6mm whilst there was also a layer of simple 150mm to 300mm concrete and 30mm layer of plastic concrete on the top of slabs.

Solution

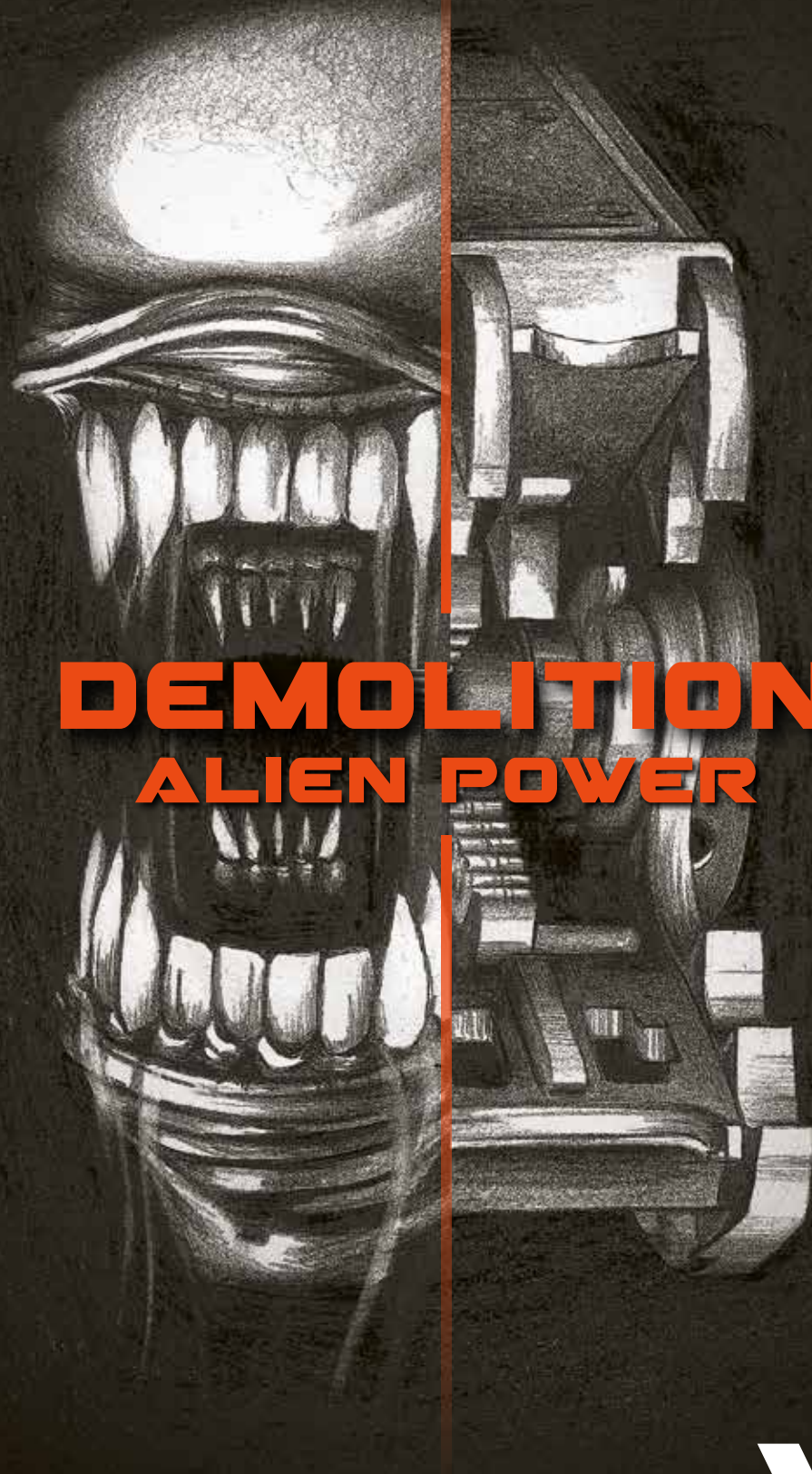
The concrete decks (covers) had to be firstly drilled and supported by additional concrete

structures for safety reasons before being cut with a diamond wire. Some cuts were more than 5m², mostly starting on the steel liners; these had very sharp edges which were impossible to round as they were covered with steel. The final part of the cutting with diamond wall saws were the whole decks to find existing gaps and removing additional seismic plates before lining. The enlargement of 5m x 9m openings in the reactor hall at the location above the SG15 and SG62 steam generators was required to create a 7m x 20m opening for construction of a wet cutting workshop.

With the experience and knowhow of Hydroservice and the knowledge achieved during 60 years of manufacturing diamond tools from Solga Diamant, this demolition project ended with an 'excellent result'.



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Successful salvage of shipwreck in Norway
(Pictures: TYROLIT)



The Atex system is a modular, combinable system comprising DWH-S Atex diamond wire, SB hydraulic wire saw and drive (Picture: TYROLIT)

HIGHEST LEVELS OF SUPPORT FROM

Tyrolit Project Services Team

For more than 20 years, the Tyrolit Project Services Team has been successfully supporting customers with products and solutions for complex construction projects, such as the decommissioning of nuclear power plants and offshore platforms. A major highlight of these solutions' has been the Atex certified wire saw system, a worldwide first of its kind.

Tyrolit prides itself on its reliable diamond technology and premium products. However, the Tyrolean manufacturer offers far more than a palette of ready to use products for the usual types of applications. In addition to solutions for renovation and demolition, such as bridges, buildings and other large reinforced concrete structures, the company's Project Services Team also provides high levels of support in far more specialist and delicate areas such as nuclear power plants or offshore platforms. In this field, professionalism and high levels of experience are key factors.

"More than 20 years of experience in the field of special projects make us the number one partner for complex decommissioning projects. According to the scope and complexity of the project, we provide our customers with customised support, reaching from bespoke product solutions to planning concepts and feasibility studies to on-site application support," says Roland Hettegger, head of the Project Services Team at Tyrolit. To this end, Tyrolit has supported various small and largescale projects all over the world, including the restauration of water dams in Australia and South America, underwater cutting operations in the Atlantic Ocean, and the decommissioning of the Belene nuclear power plant in Bulgaria.

Professional partner for decommissioning of nuclear power plants

The controlled decommissioning of nuclear power plants is a complex, long and costly process that is becoming increasingly relevant. Tyrolit experts supply suitable equipment for this purpose, both for dry and wet application. When it comes to removing contaminated

concrete surfaces, the Tyrolit wall-shaver works perfectly for removing concrete surfaces or milling channels into concrete or asphalt surfaces. For cutting large metal structures, Tyrolit wire saw systems have proved to be ideal, whilst the dry drilling system enables easy and inexpensive drilling of reinforced concrete that allows clean working without a compressor.

Expert in controlled decommissioning of offshore installations

Whether used for topside cutting orders or underwater cutting work, during running operations or on decommissioned facilities, Tyrolit provides several, specially developed wire types for steel cutting and machines that are highly suitable for cutting on oil platforms. "Our foot print in the off shore area, especially around the North Sea basin, has grown quite big. In Norway, which along with the UK, is the biggest player amongst the oil fields in the North Sea, we have trained more than

100 special operators to be wire cutters!" Stated Walter Sund, who is head of sales Nordics and a specialist in the controlled decommissioning of offshore installations.

The only Atex certified wire saw system in the world

One major highlight of the company's portfolio is the Atex certified wire saw system, with Tyrolit being the world's first supplier to offer a Atex (ATmosphères EXplosibles) certified wire saw system for use in Zone 1 (EX Zone 1, II 2G IIA c T3) explosion-hazardous areas. The system comprises of a hydraulic wire saw and electroplated diamond wire for steel and was tested in accordance with current Atex directives by GexCon in Norway, with certification being awarded by DNV Nemko Presafe AS. With this revolutionary cold cutting technology for steel and nonferrous metals, Tyrolit has opened up unprecedented possibilities in the area of service and the extension of chemical plants and oil facilities.



Decommissioning of a nuclear power plant in Bulgaria (Picture: TYROLIT)

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ECOMONDO EXPOS CRUCIAL FOR

Italy's and Europe's future

The 2020 Ecomondo expos will focus on sustainable development, being held 'live' and 'virtual' from 3 to 6 November at the Rimini expo centre Italy.

The 2020 Ecomondo expos are set to be live, virtual, accessible and safe, unveiling developments concerning the European Green Deal, thereby making them highly important for European governments. Both Ecomondo and Key Energy 2020 are organised by the Italian Exhibition Group (IEG) and are dedicated to the circular economy and renewable energy sources. Group president Lorenzo Cagnoni stated: "We reacted with the utmost energy, as we know how, and here we are, thanks to the trust of the exhibitors and the companies who wanted to confirm their participation. Ecomondo and Key Energy will show how the expo system is essential for business and companies."

Rimini's mayor Andrea Gnassi added; "At Ecomondo we shall present our case history. We took our example from venues in northern Europe, such as the Vauban expo centre in Freiburg. Rimini now features 16k of coast with €400M invested in the purification of wastewater. Our seaside promenade has been transformed into a path leading to the sea park, on which we have rebuilt the dunes, but which also hosts urban health stations, in which personalised information can be received on health care and safety. Years ago, in agreement with IEG, whom I wish to thank, we changed our business models and concentrated on sectors that have now turned out to be strategic."

IEG CEO Corrado Peraboni commented; "We have introduced a large amount of innovation to or-

ganise these expos. We have worked on different safety protocols, from the setting up of the stands to the catering, to ensure the experience is safe even before entering the expo. IEG has borne all the costs of the organisation efforts for the safety protocols, to ensure that our exhibitors only have to think about business and knowledge meetings. Ecomondo and Key Energy will be hybrid expos: live participation and our digital channel dedicated to B2B which we shall present shortly."

"Compared to 2019, 70% of our space will be occupied," announced Alessandra Astolfi, IEG's Group brand manager, Green and Technology Division. "A figure that in a period such as this seems truly extraordinary. We analysed the requirements of exhibitors, trade and business associations and the scientific community, established three entrances, 26 rooms for Ecomondo and 10 for Key Energy and fitted out a television set for the transmission of events in streaming. I wish to emphasise the boost of the start-ups, the participation of the European Commission and Italy's key Ministries."

Edo Ronchi, president of the foundation for sustainable development added; "The Green Deal is set to be a fundamental key for the use of the €209B of the recovery fund, a historic opportunity for changing the development model. So this year's edition of the green economy will have to contribute to taking advantage of this opportunity. If we consider the new European target for the reduction of emissions to 55%, you can imagine the change in the energy system. Then there is

sustainable mobility, the ecological quality of the food system and climatic issues, as well as the quality of life. Green economy's policies are effective if they manage to establish themselves in our cities."

Professor Gianni Silvestrini, president of Key Energy's scientific committee added; "The European decision to raise climatic targets obliges us to accelerate considerably on renewable energy sources, efficiency and electric mobility. It is a great opportunity for this expo: if we just consider the growth potential of the photovoltaic sector, a market destined to increase its annual installed power tenfold thanks to the combination of the reduction of prices and the new goal proposed by the commission. Elements that enable to have firm hopes in the growth of the sector and an expo whose cornerstones are renewable energy sources, energy efficiency, electric mobility and smart cities."

Professor Fabio Fava, president of Ecomondo's scientific committee concluded: "This edition starts with the good news that the circular economy is at the centre of both European and Italian strategies. Covid-19's impact on the various chains and their innovation, as well as digitalisation in industry and services and environmental regeneration, will be decisive factors in the implementation of this paradigm. Ecomondo has always been a ground breaking expo, so we have accepted the challenge of the European Green Deal and are facing the eruption of the pandemic to show how the industry and its services have reacted to this crisis."

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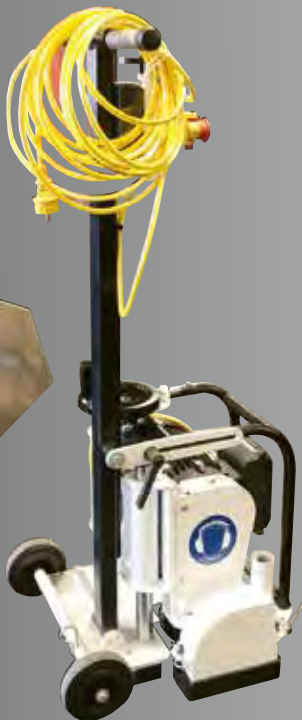


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The Eddy Current Separator is composed of modules that are easily interchangeable and therefore suitable for different product flows.

Smart non-ferrous separator with IOT module

Goudsmit Magnetics from Waalre has recently upgraded its 'Eddy Current Non-Ferrous Separator' (which will be shown at Recycling in Gorinchem, stand E117). The upgrade means that the control unit can optionally be expanded with an IOT (Internet of Things) module; this makes the machine suitable for almost any product flow.

The new IOT module sends all important data to a dashboard through the internet. This allows operators to see what the performance of a machine is at a glance, noting how fast the rotor is turning, how many vibrations there are, what is the belt speed etc. with this information being displayed graphically and in real time. The internet connection also offers the option of remote assistance, with the Goudsmit service team being available online to monitor, resolve any malfunctions, and carry out software updates. This saves a lot of time and therefore increases the up time of the Eddy Current Separator. The connection with 'Profinet' also makes it possible to integrate a non-ferrous separator in a machine line. In this way, everything works together and the line can be controlled centrally.

Modular design

Mechanical upgrades have also been made to the separator with the 'EddyXpert' and 'EddyFines' machine lines having been brought closer together to enable

the interchangeability of modules. For companies that wish to expand their systems in the future with, for example, a drum magnetic separator or other separation system, these can easily be replaced or exchanged with another module.

Glass, wood or bottom ash

Practical examples have proven the advantages of smart module combinations and show that the Eddy Current Separator can be cleverly combined for every product flow and requirement. For glass recycling, for example, Goudsmit Magnetics supplies Eddy Current Separators with manganese steel wear plates on the vibratory chute, drum magnet and/or separation plate. Together with a wear resistant rubber conveyor belt, this is the ideal combination for glass recycling.

For small fraction bottom ash recycling, Goudsmit uses a 38Hl magnetic rotor in combination with a feed belt separator instead of a vibratory chute. This helps to prevent caking of the cement like mass and results in the best possible separation. Recycling coarse wood pieces is best done with an Eddy Current Separator with a 12 pole magnetic rotor with a very deep and powerful field. To give the coarse pieces sufficient space, Goudsmit recommends installing an extra-large chute and a separation unit.

Russian Demolition Association 'NADO' holds its first general meeting

On 9 September 2020, the Russian demolition association 'NADO' held its first general meeting in Moscow. With some 40 delegates in attendance, the participants identified the association's short- and long-term objectives and elected president and board members. Grigoriy Frich of Yekaterinburg-based contractor 'GSK Reforma' and Anton Ananin of OOO 'Volgaspetsstroj' from Nizhny Novgorod were appointed the association's President and Vice-President respectively. At the moment, the 'NADO' association counts 21 specialist demolition, recycling and concrete sawing contractors as its members. Following up on the success of the Russian Demolition Forum 2020, the association will

be organizing its second edition on 2 and 3 February 2021 in Moscow.

<https://demolition-nado.ru>



B2W Software enhances estimating software change order management capabilities

B2W Software is a provider of 'heavy construction' management software, recently announcing the enhancement of change order management capabilities within its 'B2W Estimate' application. New functionality now makes it easier and faster for estimators to add, modify and track change orders directly within an original estimate.

With the new B2W Estimate enhancements, construction estimators can create any number of new change orders associated with a base bid within the application. They can add items and activities from the B2W Estimate database, or copy, paste and adjust information from the base bid. Change orders appear as independent links within the B2W bid menu structure. "Our system allows B2W Estimate users to essentially handle change orders as estimates within estimates, keeping them uniform, organised and linked to the base bid," explained Patrick Reitz, product manager for B2W Estimate.

Change orders are visible from bid pricing and distribution strategy tabs, allowing estimators to make adjustments separate from the base bid for individual change orders. Users can also lock the portion of the bid containing the change order once it has been accepted to prevent further modifications. With traditional approaches, change orders are stored and managed separately, isolated from the base bid and sometimes built with a different structure. Reitz explains, "This makes it very difficult to keep up with various change order versions and updates, keep them in sync with the base bid, and get an overall picture at any given point in the estimating process."

Change orders are used by estimators to accommodate changes in the scope of a project identified after the original design is bid on or while construction is underway. Reitz points out that some contractors also use change orders in B2W Estimate to plan in advance for potential additional work that they envision on a project or to cost out several alternate methods for performing work for comparison.

B2W Estimate provides centralised, up to date cost data and structures along with specialised functionality for heavy construction estimating and bidding. The intuitive, easy to use solution allows contractors to maximise accuracy and speed, focus more attention on strategy and win more bids at better margins.

Headquartered in Portsmouth, New Hampshire, B2W Software empowers heavy civil construction companies to win more work and complete it more profitably. The company's 'One Platform' connects people, workflows and data and includes advanced, unified applications to manage estimating, scheduling, field tracking, equipment maintenance, eforms and business intelligence.



REINVENTING THE WHEEL... LOADER

The world's first wheel loader - the H10 model featuring a parallel lift arm system and attachment bracket - was marketed by Volvo Construction Equipment in 1954. Since then the wheel loader industry has come a long way, with dozens of players from all over the globe having joined the competition and hundreds of different models having been launched. PDi's Andrei Bushmarin reports breaking news from the sector.

Volvo CE updates H-Series

This year Volvo Construction Equipment updated its proven H-Series which was first introduced in 2014, introducing a host of new features aimed at increasing productivity. The rimpull control system now comes as standard on all H-Series models. This function allows operators to minimise wheel spin and optimise the balance between rimpull and hydraulic functions. A new optional lock up function for first gear on the L60H-L120H models is particularly useful in agricultural applications, enabling faster cycle times for silage work. The patented Volvo 'Co-Pilot' monitor is now available on a wider range of machines from L60H up to L350H. The 250mm in-cab touchscreen provides access to several load assist applications including the tyre pressure monitoring system that gives operators real time information on the conditions of machine tyres. Furthermore a map application allows operators to get better visibility and understanding of the site layout. Weather, calculator and notes apps work similarly to those found on a smartphone and are pre-installed in the Volvo Co-Pilot which is designed to help loading the optimum amount of material. An on-board weighing app has been upgraded to include two new task modes – stockpiling and processing. For increased convenience and safety, both the rear view camera and radar detector system are now displayed on the Volvo Co-Pilot display. The operator coaching application is designed

to enhance operator performance, whilst servicing has also been improved by adding new features. First off, the engine oil change interval has been extended to 1,000h as standard. New handles have been installed on both sides of the counterweight facility, helping make accessing service points easier. A quick fit connector on the hydraulic tank is now fitted as standard on all H-Series models. Customers who specify the biodegradable hydraulic oil option now benefit from an extended change interval which is doubled to 8,000h. Finally, on L150H up to L260H models, a new quick

fit option enables cleaner and rapid engine oil changes – in as little as 15min – helping eliminate oil spillage and contamination.

www.volvo.com

JCB's biggest model gets engine change to meet emission regulations

UK based JCB has upgraded its 457 wheel loader to meet the upcoming EU Stage V emissions legislation. The British manufacturer has achieved the target by having replaced the previous MTU engine with a QSB6.7 diesel engine from Cummins, featuring single module after-treatment, selective catalytic reduction (SCR), a diesel particulate filter (DPF) and an ammonia slip catalyst (ASC). The move brings an increase in overall engine power from 192kW to 210kW. However, the 457 has two power modes that can be activated from the cab to reduce the engine's output to 167kW for lighter operating duties. The machine is now supplied as standard with a five speed 'Powershift' transmission in lieu of the previous four speed unit and an automatic engine shutdown feature. This results in a wider range of speeds and up to 10% lower fuel consumption. The loader, which continues using JCB's 'Command Plus' cab, further benefits from improved KAB seating in both the 'Deluxe' and 'Super Deluxe' specifications. Another highlight of JCB's largest model is a roof mounted forward facing camera for use with larger buckets and



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longer loading arms in lighter materials. The forward camera comes equipped with a secondary colour screen in the cab, alongside the standard rear view monitor.

www.jcb.com

Komatsu Europe adds a new compact model

Komatsu's brand new WA70M-8 compact wheel loader has been built to impress with world class operator comfort and visibility, ergonomic interface and a ruggedly stylish design. With its hydraulic quick coupler, 'Easy Fork' kinematic and a wide range of attachments available, the WA70M-8 is a versatile machine that will be equally handy on construction and demolition sites as well as on gardening, landscaping or agricultural projects. "The WA70M-8 is the latest model equipped with the EU Stage V engine technology," says Michael Wadsack, product manager at Komatsu Europe. Engine power has been increased by 25% compared to the previous model and now reaches 46.2kW. Optimised for tough applications, the machine's fully automatic hydrostatic transmission distributes power between all four wheels. High torque with the low rpm engine setting results in excellent uphill travel performance. The operator can rely on Easy Fork kinematic to transport loads with pallet forks parallel to the ground without readjusting the fork tines. Thanks to the redesigned engine hood and tiltable cabin, all service points are readily accessible. A 6,000h cleaning interval makes the diesel particulate filter maintenance free for 10 years. The



high resolution 180mm TFT-LCD widescreen colour monitor provides information in 24 languages. The optional air conditioner and electronically controlled suspension system (ECSS) further enhance operator comfort and productivity.

www.komatsu.eu

Caterpillar builds on the success of its compact range

Building on the success of its compact range, US based heavyweight Caterpillar rolled out three new models - 910, 914, and 920 - in March 2020. All new loaders are supplied in 'high-lift' configuration, with the 914 and 920 models also available in 'aggregate handling' configuration. All models have received an engine change: the new Cat C3.6 engine having the same torque as the previous Cat 4.4 but providing a boost in rated gross power from 74kW to 82kW for the 910 and 914 and from 86kW to 90kW for the 920. According to the manufacturer, the new engine ensures up to a 5% gain in fuel efficiency while meeting the EU Stage V and U.S. EPA Tier 4 Final Emission Standards. Another design highlight is the reversing fan. In work environments where airborne debris can be pulled into cooling cores, thereby restricting airflow and leading to overheating, the reversing fan helps keep the cores clean for better temperature control. The reversing fan has a three position rocker switch in the cab, allowing the system to be turned off, to operate in an automatic mode, or to be momentarily activated by the operator. In the automatic mode, the fan is factory set to reverse direction for 10sec every 10min. The 914 can now be equipped with Caterpillar's 'Fusion Coupler System' to provide enhanced attachment compatibility and durability. The Fusion Coupler features a wedging mechanism to create a tight, rattle free fit, eliminating coupler to attachment movement and subsequent wear. New auxiliary lines are available for all new models when the three or four valve option is selected. This feature allows use of extra work tools within the Caterpillar portfolio. A new rear guard is available for the 914 and 920 models for use in harsh environments. In cab USB ports are also part of the design to now



provide low voltage power for charging cell phone and other compatible electronic devices.

www.cat.com

Mecalac launches new telescopic swing loader

The new 'AS900 Tele' telescopic swing loader from France headquartered Mecalac Group boasts an 180° working radius, a lifting height of over 4.72m and a reach of over 3.5m. Powered by a 55kW engine, this versatile machine boasts a bucket capacity of 0.9m³ to 1.2m³. The AS900 Tele is perfect for municipal applications such as loading, material handling, hedge trimming or flail mowing (with the proper attachment), or snow removal in winter. The loader's excellent stability comes from its unique proprietary design: a rigid frame and four wheel steering that make for the highest levels of safety. The AS900 Tele provides the operator with a comfortable working environment with the seat being centrally located in the roomy cab with a panoramic view of the jobsite. Controls are ergonomically integrated into the joysticks. Two large doors on either side of the cab further enhance safe entering and exiting of the machine in tight quarters or heavy traffic. The impressively low noise levels - 75dB(A) inside the cab and 100dB(A) outside - make the AS900 Tele popular with both the users and passers-by.

www.mecalac.com



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TYROLIT 'CUT-ALL'

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The Cut-All diamond cutting blade is the new all-rounder addition to the Tyrolit range. The robust saw

blade is suitable for almost all materials found on building sites, and can be used for any type of reconstruction

work in the house and garden. The universal saw blade has what is said to be outstanding durability offering a clean cutting pattern. It is suitable for materials such as concrete, cast iron, building materials, hard stone, marble, nonferrous metals, abrasive materials, plastic, glass, wood and composites.

The blade is universally suited to construction and landscaping applications as well as those found in the construction and landscaping sectors. It is ideal for rescue operations by fire brigades and security forces. It has a very long lifetime and consistent cutting performance, with the Cut-All series being available in five different sizes.

www.tyrolit.com

Cat 963 track loader pairs versatility with fuel and productivity improvements

When maximum return on equipment investment is key, track loader versatility requires one machine and one operator to dig, load, carry, fill and more. The new Cat 963 track loader combines that versatility with up to 10% better fuel efficiency, more productivity and cab and controllability improvements whilst also meeting EU Stage V emission standards. At 151kW and with an operating weight of 20,358kg, the new 963 crawler loader replaces the 963K.

Operation made easy

The 963 is easy to operate from an updated cab with suspension seat and adjustable armrests/controls. An intuitive 254mm touchscreen dash display is easy to use and features a standard high definition rear view camera. 'Slope Indicate' helps make operation easier by showing machine mainfall and cross slope right on the display. The joystick option provides familiar controls for operators experienced with skid steers and compact track loaders, whilst customers are able to choose more traditional V-lever/foot pedal controls. With either control scheme, operators can set 'implement response' – fine, normal, coarse – to match operator preference



or application. Smoother implement and steering response, and improved steering performance provide more controllability.

Greater profitability

The 963 is powered by a Cat C7.1 engine that produces 15% more peak torque than the previous model for more power to the ground under load. Up to 10% fuel consumption reduction is achieved with the 'Auto Mode' that will adapt the engine speed to the load. 'Eco Mode' will use even lower speed for further reduction in fuel consumption in lighter duty applications, whilst 'Power Mode' will keep engine speed high to feel readily available power at all times.

An optional 'Performance Series' bucket boosts productivity up to 20% whilst the optional 'Fusion' quick coupler enables fast attachment changes. A variety of buckets, forks and other tools can be shared among track loaders, wheel loaders and other Fusion compatible machines. Additionally purpose built 'Low Ground Pressure' (LGP) and waste handling machines are factory equipped with specialised undercarriage, guarding and other features designed to take on the toughest tasks.

www.cat.com

ECA Canada Company new Allu dealer for Ontario

ALLU Group Inc. is pleased to announce ECA Canada Company, based in Toronto, as its new dealer for the full line of Allu Transformer material processing attachments. ECA Canada Company will not only provide sales and rental of Allu's unique screener-crusher buckets and soil stabilising equipment, but will also provide complete aftermarket care and spare parts.

The appointment of ECA Canada Company as its distributor for Ontario reinforces Allu's commitment to providing the highest possible level of customer service by combining local expertise and support with the wide reach and innovative benefits of working with a truly global company. Founded in 1918, ECA (Equipment Corporation of America) has been a prominent distributor of construction machinery for specialised civil, min-

ing, and marine construction projects. Initially it focused along the East Coast of the U.S., and since 2000, the Eastern Canadian provinces. From its earliest roots, ECA has promoted the rental of construction equipment as a means for its customers to cost effectively complete construction projects. Along with top quality equipment, ECA's customers also benefit from the company's ability to provide technical support of the highest order.

President of ALLU Group Inc. President Edgar J. Chavez, says of the appointment of ECA, "Allu is known worldwide for its legacy of providing the highest quality equipment, along with unparalleled aftermarket support. This tradition has now been made even stronger through our valuable partnership with ECA Canada Company, through its local network and industry ex-



pertise. We are happy to introduce them as a valuable addition to our comprehensive dealer network."

"ECA Canada Company is excited to now offer Allu's Transformers alongside of its Processor Power Mixer," notes Ray Kemppainen, vice president for ECA Canada Company. "Allu's high quality is directly in line with the other products we proudly represent. The Transformer adds another option to our growing inventory of attachments by allowing our customers to utilise their excavators and loaders in a variety of applications."

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Rockster's closed circuit impactor

The R1000S closed circuit impact crusher with a screening system and air blower has been crushing at the Bauhof Deutschlandsberg since the beginning of 2020. Here it provides valuable services in the production of high quality recycled building materials.

Bauhof Deutschlandsberg GmbH has been providing the perfect material cycle for 24 years. With a nine person team and strong partner network, the company's specialisms are building demolition, container services and the recycling of all types of construction debris. On its 6.6h company premises, processed materials are immediately returned to the material cycle on the construction sites. The processing capacity on the Bauhof site is 80,000t per year, which corresponds to a saved landfill volume of 55,000m³. With a recycling rate of 98% landfilling is avoided as much as possible, with company founder Konrad Pistolnig senior stating: "The management of construction waste is of growing interest for both the construction industry and waste management. Residual building materials that do not end up in a landfill but are returned to the economic cycle as high quality RC building materials are an ecological necessity."

New Rockster crusher

At the end of 2019, Bauhof Deutschlandsberg GmbH management decided to replace its rented crushing plant with a new closed circuit R1000S impact crusher from Rockster. The impactor has been at the centre of the company's recycling since January of this year. "With our R1000S we have already produced 16,000t of concrete 0/80mm; 8,000t of asphalt 0/18mm; 600t of wall ballast 0/16mm and 500t of construction debris 0/20mm. We are extremely satisfied with the quality of the end product. The mixture of coarser and fine grain is just right for further use in the concrete mixing plant or on construction sites," says Pistolnig.

Thanks to the compactness of the Rockster crusher, the contract crushing business has also been expanded. "The use of recycled materials is becoming more and more demanding and also brings some advantages to the construction company. You can save money, conserve natural resources and still use high quality building materials," explains Pistolnig.



At almost any stage of construction work difficulties can arise, with every problem needing to be solved quickly and without incurring additional expense. Everyone solves difficulties in their own way, either with the machinery they already own or by adopting new processes that not only solve their problems, but allows them to generate revenue. MB Crusher looks at five solutions to construction problems.

Demolish not destroy

On a construction site in Japan, it was necessary to demolish a wooden house without destroying or ruining the material. Traditional three tooth claw grapples make it difficult to remove and move the small pieces of wood. On the other hand, the MB-G900 grapple removed the wooden planks, and delicately and precisely moved them without destroying the material. Likewise at the port of Conakry, Guinea, where 2M tons of goods are trafficked every year a major restoration project was undertaken. This included the restoration of the handling and storage area, with the elimination of the existing self-blocking concrete blocks used to reinforce the subsoil proving to be no easy task. The ingenious solution the construction site adopted was using a BF80.3 crusher bucket and through using this agile and compact unit, they managed to crush the existing blocks on the spot, reducing them to a size of 0-30mm. They then mixed the crushed material with the existing sub base, creating a quality mixture capable of withstanding heavy loads.

So clean it's beautiful

Trentino Alto Adige, Italy, is known for its aesthetically pleasing public greenery. A landscaping company was tasked with cleaning dirty natural stones to create flower beds and fencing and decorative retaining walls without disturbing the surrounding areas. This was accomplished using a MB-S18 screening bucket with 80mm panels to select and clean the stones inside a tight, water-filled container. Similarly in France, a mountain valley in the southeast had been overrun by Japanese knotweed placing more than 1,000m² of biodiversity at risk. The task was to eliminate the weeds without the use of trucks to move tons of soil out. The inventive idea was to use an MB-HDS320 shafts screener to pull live rootstalk and mulch it which making the rootstalk unfit for regeneration.

Return on investment

A new tunnel had to be created in a mine in Sinaloa, Mexico. The problem was to find a machine that could create the tunnel with precision and be effective in tight spaces. The company thought to use a tool that hadn't been used in a tunnel before, namely the MB-R900 drum cutter, which was mounted on a Komatsu PC200 creating the underground tunnel with millimeter precision. This and the other cases, show how MB Crusher equipment works with the equipment already on site providing rapid return on investment.



Yanmar engines power Covid-19 disinfection

In Baghdad, Iraq, Yanmar Europe and Qaswaa Al-Bararry are taking part in a project to disinfect and sanitise public areas in an effort to limit the spread of the coronavirus and protect the community. The disinfection work is being conducted by the municipalities of Baghdad and Basrah using spraying equipment and generators made by Qaswaa. These generators use Yanmar's heavy duty but silent TNV engines, with the equipment being used to spray a solution of liquid bleach to disinfect public areas in the cities.

"We're proud to be part of this vital work to keep the citizens of Iraq safe," said Ali Al-Obaidi, director-manager Qaswaa Al-Bararry. "It's important that together with

support from Yanmar, we can offer a reliable solution that is quiet enough that it doesn't disrupt citizens' lives." Peter Aarsen, president of Yanmar Europe B.V. added: "We hope that this work will help reduce the chance of infection of Covid-19 and keep the people of Iraq safe. We're very pleased to have strong partners like Qaswaa Al-Bararry to help us deliver positive health outcomes for their community."

Residents of the areas disinfected expressed their gratitude for the work undertaken. The disinfecting activities are expected to be expanded to other municipalities and regions to help combat Covid-19.

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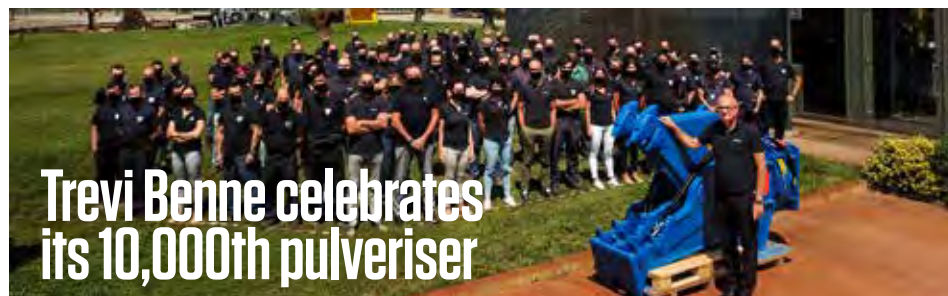
Sandvik Mining and Rock Technology has signed an agreement to acquire Allied Construction Products LLC (Allied), a US distributor of hydraulic hammers to the construction and mining industries and manufacturer of compactor plates and mounting brackets. The acquisition of Allied establishes an enhanced sales, service and support platform for the growing North American customer base. It also enables Sandvik to

expand the existing dealer network into new regions and to penetrate new customer segments with a broader product offering. Allied will obtain additional strength and access to cutting edge technology.

Allied and Sandvik Mining and Rock Technology have had a strategic partnership since 2003, with Allied being the US distributor for Rammer products. Sandvik Mining and Rock Technology was already a 21%

minority shareholder of the company and Sandvik's products generates about 80% of Allied's revenues. In 2019 the company generated revenues of approximately €25M with 38 employees. The parties have agreed not to disclose the purchase price and the transaction is expected to close during the third quarter 2020. The deal is neutral to Sandvik's earnings per share from the start.

www.sandvik.com



Trevi Benne celebrates its 10,000th pulveriser

With the delivery of a FR 23 pulveriser model to a Scandinavian customer, Trevi Benne recently marked

and celebrated the production of its 10,000th pulveriser. The company, which began in 1992 manufacturing ex-

cavating and loading buckets for excavators and shovels, before moving into the development and production of attachments for demolition and recycling. "I would say that Trevi Benne has always been motivated by a great passion, commitment and innovation and that is something that has brought us forward continuously and to experience celebrations like this one," comments Trevi Benne marketing manager, Christian Tadiotto. The 10,000th pulveriser is a milestone in the company's history that has been celebrated by the company, its employees and partners. The company also wishes to thank its distributors, dealers and customers who have over time chosen Trevi Benne equipment.

www.trevibenne.it

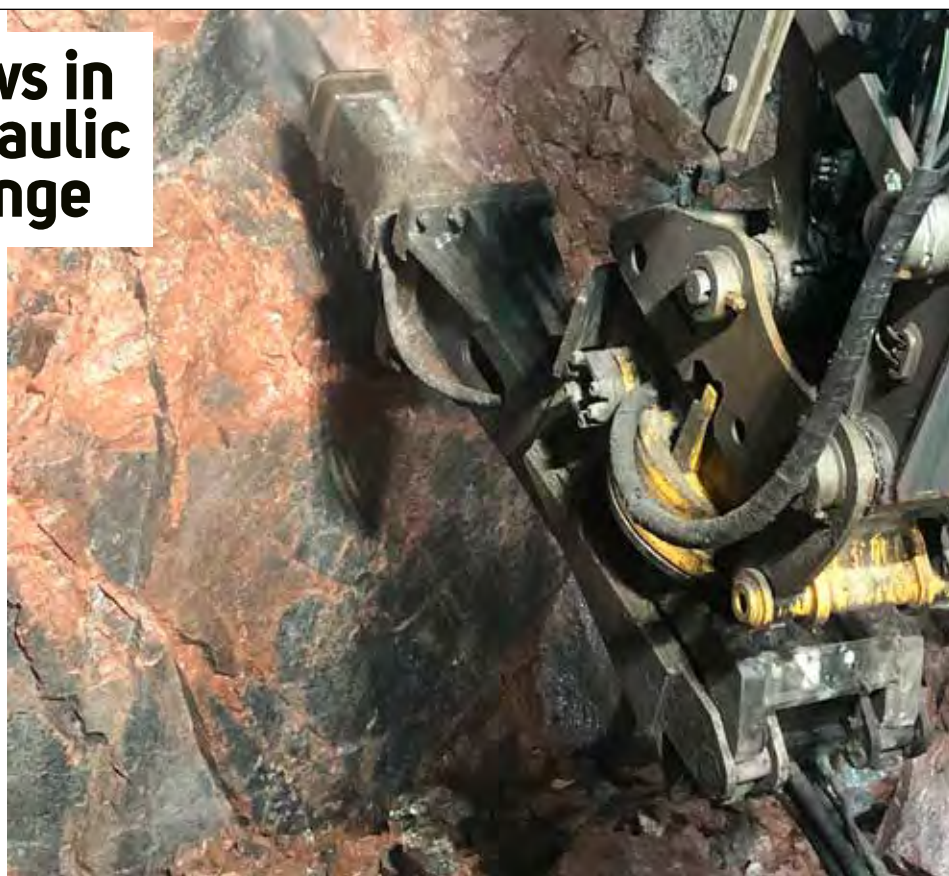
Big and small news in 'Solid Body' hydraulic breaker tunnel range

Two new additions have been added to the popular tunnel version of the Epiroc SB breakers. The new lightweight SB 202 Tunnel and the buff SB 552 Tunnel add versatility at both ends of the range.

The thorough work undertaken further developing the proven SB breaker concept for underground applications led to the introduction of the SB 302 and SB 452 Tunnel versions in 2017. With features focused on extended lifetime and overall cost reductions, they became an underground hit. As of mid-2020 the family doubled in size. Both the lighter SB 202, weighing in at 200 kg, and the powerful SB 552, with a service weight of 560 kg, share the popular and robust qualities of the existing models. They also extend the scope of suitable carriers to 2.5t -15t (previously 4.5t -13t).

Among the application specific modifications are exchangeable wear plate and front shield dust cover that extends lifetime by preventing bigger rocks from damaging the body and keeping dust out, being primarily of importance when working on overhead areas. The tunnel version is also equipped with integrated nozzles for water spraying, a feature with a positive effect on both health and safety. As the water catches the dust, the line of sight of the operator stays clear and the dust is kept on the ground. Bushing bore wear is kept down with a press fit bushing locked by an additional pin. Exchangeable restrictors make sure performance is adjusted to the current job requirements, whether in traditional scaling or heavier rock breaking.

The DNA of the Solid Body concept is particularly obvious in the advanced special version. Among the



appreciated features carried over from the original SB breaker are the energy recovery system that uses recoil energy from the piston to reduce vibrations and increase performance; the pressure relief valve to protect against overload and last but not the least, all the weight, design and durability benefits of the solid body itself.

"We're pleased to provide all our customers working underground with further options. Their business is our number one priority and with the durability and low operating cost of these breakers we know we can support them even better," concludes Torsten Ahr, Epiroc vice president of marketing.



TF double drum cutter heads with direct drive for high performance

Simex TF cutter heads are ideal for trenching, profiling rock and cement walls, tunnelling, quarrying, demolition, dredging, finishing operations and underwater works. They are highly effective where conventional excavation systems are too weak and percussion systems have little effect. Their quiet operation allows them to be put to work near sensitive areas (residential zones, hospitals, schools, bridges and infrastructure).

The TF heads are especially recommended for finishing operations, where a high precision, minimum disturbance and optimum aesthetic result is required. They possess such characteristics as precise cut, low vibrations, and the ability to reuse milled material on site as well as being suitable for underwater works. Furthermore the particular shape of the frame makes it possible to reduce the distance between the drums thereby improving the total working width. Additionally the two sides of the frame have the same shape which prevents 'chunks' of material and stones from getting stuck between the drums and frame.

A high torque delivers high levels of performance through an integrated high displacement hydraulic piston motor, with the shafts transmitting motion only and bearing no load thanks to double support bearings for each drum. Mechanical seals on the drums prevent dust from entering, even when the attachment is submerged into the ground, even in muddy conditions. A filter on the feed line also prevents impurities from entering motor.

Milled material is discharged from the trench without getting stuck in the frame thanks to its special shape, which also allows hoses to be hooked up at sides and front. These features help ensure that the TF series delivers increased productivity and maximum precision cutting as the cutter head can be rotated 90° thanks to square holes of the coupling plate. With replaceable anti-wear plates and with drums and teeth for virtually any application, the TF double drum cutter heads have been designed to achieve higher efficiency based on the required application.



Bobcat completes new M-Series Stage V loader range

With the launch of the new S550 and S590 models, Bobcat has completed the company's M-Series of Stage V compliant skid steer and compact track loaders. Like the S450, S510 and S530 skid steer and T450 and T590 compact track loaders launched earlier this year, the S550 and S590 combine compact dimensions with Stage V engine technology, telematics connectivity, new bold Bobcat styling with 3D decals and a two year warranty as standard.

In contrast to the previously launched M-Series models with Stage V engines, the new S550 and S590 have a number of advanced features as standard. These include selectable joystick controls for ease of operation, an 'Attachment Control Device' (ACD) for managing attachment functions from the joystick and a two speed drive that improves productivity and fuel efficiency. The new S550 and S590 skid steer loaders will be produced in the Bobcat plant in Dobruška in the Czech Republic and are available to order with immediate effect for delivery early in 2021.

SJC and ACD as standard

One of the most important new standard features on the S550 and S590 is the previously optional Bobcat 'Selectable Joystick Controls' (SJC) system. Based on easy to use, low effort joysticks, the SJC system provides the operator with Bobcat exclusive features and fingertip switches. This automatically configures the loader as a tool carrier for working all day with the widest possible selection of attachments, as well as providing increased operator comfort and unmatched joystick control of the loader itself. With the SJC system in place, the S550 and S590 now offer the ACD ('Attachment Control Device') system as standard. Using 'Can-Bus' communication to recognise the attachment on the machine, the ACD system automatically sets up the joystick controls and the output flow to ensure the best performance when using attachments on the new S550 and S590 loaders.

'High-Flow Hydraulics'

Another addition is High-Flow Hydraulics as standard on the S550 and S590 Stage V models. This further expands the exceptional versatility of these machines, allowing them to be used with advanced higher flow attachments such as sweepers, planers and wheel saws. Jiri Karmazin, product manager for loaders at Bobcat, commented: "The new S550 and S590 models complete our M-Series Stage V loader range. By bringing together the next generation Stage V engine technology with features such as Bobcat SJC controls and High-Flow Hydraulics as standard, these models are ready configured as versatile tool carriers for use with an even wider range of Bobcat attachments."

Higher torque and performance

The next generation of Bobcat D24 engine (with Bosch

fuel injection system) improves overall machine performance, providing a higher power output of 50.7kW and higher torque. The new engine technology results in lower fuel consumption for the same kind of work, while fulfilling the strictest Stage V emissions regulations. This ensures the S550 and S590 are ideal for use on the most demanding jobs. The next generation engine is equipped with diesel particulate filter (DPF) after treatment technology, which works automatically without any interaction needed during normal operation. The use of DPF technology allows the new loaders to be employed in emission regulated zones such as city centres. In addition, the auto idle feature reduces the engine speed to low idle when the joysticks are in the neutral position and have not been used for about five seconds, ensuring quieter overall operation and reduced fuel consumption.

The next generation Bobcat engine has also allowed the company to extend maintenance intervals with the first service now being after 500h which also reduces the number of fuel filter replacements required. Both new loader models offer two speed operation as standard, which boosts the maximum travel speed from 11.4 km/h in low range to 17.3 km/h in high range to improve productivity and fuel efficiency. This can be combined with the hydraulic bucket positioning option, which keeps the loader bucket level as the lift arms travel upward, enabling operators to spill less and work faster. The engine also sees noise levels reduced for both bystanders and the operator. This can be combined with popular comfort features such as the 'Heat Ventilation with Air Condition' (HVAC) option, providing a more comfortable operator environment throughout the year and in all conditions.

'Deluxe' control panel and versatile tyres

The new Stage V loaders now feature the previously optional Deluxe control panel as standard, offering a choice of different languages and telematics to protect the machines and to monitor their performance.

The Deluxe panel also reduces the risk of misuse, thanks to the keyless start function and, if necessary, the operator can lock and password protect both the 'high flow' and two speed systems via the panel. A new DPF management menu provides easy management of the machine and exhaust after treatment system. Other features found include an optional 'Cloth Suspension Seat' that improves the operator's comfort all year long and the 'Auto Ride Control' option that improves the operator's comfort and the machine's stability.

Finally the S550 and S590 are equipped as standard with 'Versatile Duty Tyres' with a bi-directional design for use on the most common mixed surfaces, improving lifetime significantly. Industrial solid flex tyres are available as an option and are designed for intensive wear applications that have a higher risk of punctures.

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Holzer Tiefbau takes delivery of **NEW HYUNDAI HX220AL**

Holzer Erdbau-und Baggerbetrieb from Oberhausen near Weilheim is a family owned and run company operating in the south of Bavaria. The company's business activities are focused on earthworks, civil engineering and demolition work, with quality, customer orientation and sustainability playing an important role in the running of the business.

When it comes to new plant, owner Jakob Holzer explained; "We have had a very good relationship with Hyundai dealer, Fischer u. Schweiger GmbH in Zusmarshausen for many years. When it was time to get our next heavy line excavator for demolition and civil engineering work, we had no doubt that we wanted to invest in the latest generation of machines from Hyundai, the A-series."

Excavator operator Peter Müller, who has 20 years of experience at the controls, is full of praise for his new South Korean work horse. "The excavator stands out from the others. It is incredibly quiet inside the cab, and because it is easy to preselect working pressure and oil quantity for the attachments, I have a really versatile machine." With its low fuel consumption, improved

machine operation and improved availability, the stage V-compliant, 22t crawler excavator is impressive. Holzer uses the excavator for demolition where it has proven itself with a sorting grab, hydraulic hammer, pulveriser and bucket.

Georg Schweiger, managing director of Hyundai authorised dealer Fischer u. Schweiger GmbH in Zusmarshausen, looks after customers personally and meets with management and excavator operators regularly on site. "Construction equipment is at a very similar high quality level, so service, support and quick help when there is a problem are very important. We know that many of our customers, like Jakob Holzer, do not have a standby machine at their disposal. This makes it all the more important for us to always keep the excavator at

the highest level of availability, which is why I am happy to be on site and hear what the operators say – and they are more than satisfied with Hyundai."

Hi tech excavator for civil engineering and demolition

Coming with a new engine platform (Stage V), a new hydraulic flow regulator, improved operator controls with 2D/3D machine guidance, new safety features, improved uptime and productivity, the 22t crawler excavator is set to leave a positive mark on the construction equipment industry. The HX220AL incorporates some of Hyundai's latest advances. These include 'EPFC' (Electric Positive Flow Control) which improves fuel efficiency and controllability by means of a technique to reduce flow for excavator operations. It also possesses 'Auto Safety Lock' which prevents unintended operation/start of the machine of the excavator in order to improve safety.



Operator Peter Müller (left) and Georg Schweiger, managing director of Fischer und Schweiger, enjoy excellent relations.

In addition, 'Eco guidance' indicates inefficient operation status to prevent excessive fuel consumption through improper working habits on the machine cluster, whilst 'MG/MC' (Machine Guidance / Machine Control) indicates the work status and automatically controls the attachment to assist the operator. The 'MG' displays the position of the bucket tip in relation to the predefined

target surface, whereas the 'MC' automatically controls grading with the bucket tip or face and has an automatic stop control, up, down, forward and cabin protection.

All in one exhaust after treatment with the Cummins engine
What Hyundai says is a 'best in class' solution, the A-

series' stage V exhaust after treatment is based on an all in one solution, i.e. a unique exhaust muffler integrating the diesel oxidation catalyst (DOC), the DEF injector (SCR) and a Diesel Particulate Filter (DPF). There is no exhaust gas recirculation (EGR). This results in an efficient, more reliable and environmentally friendly solution with problem free maintenance.



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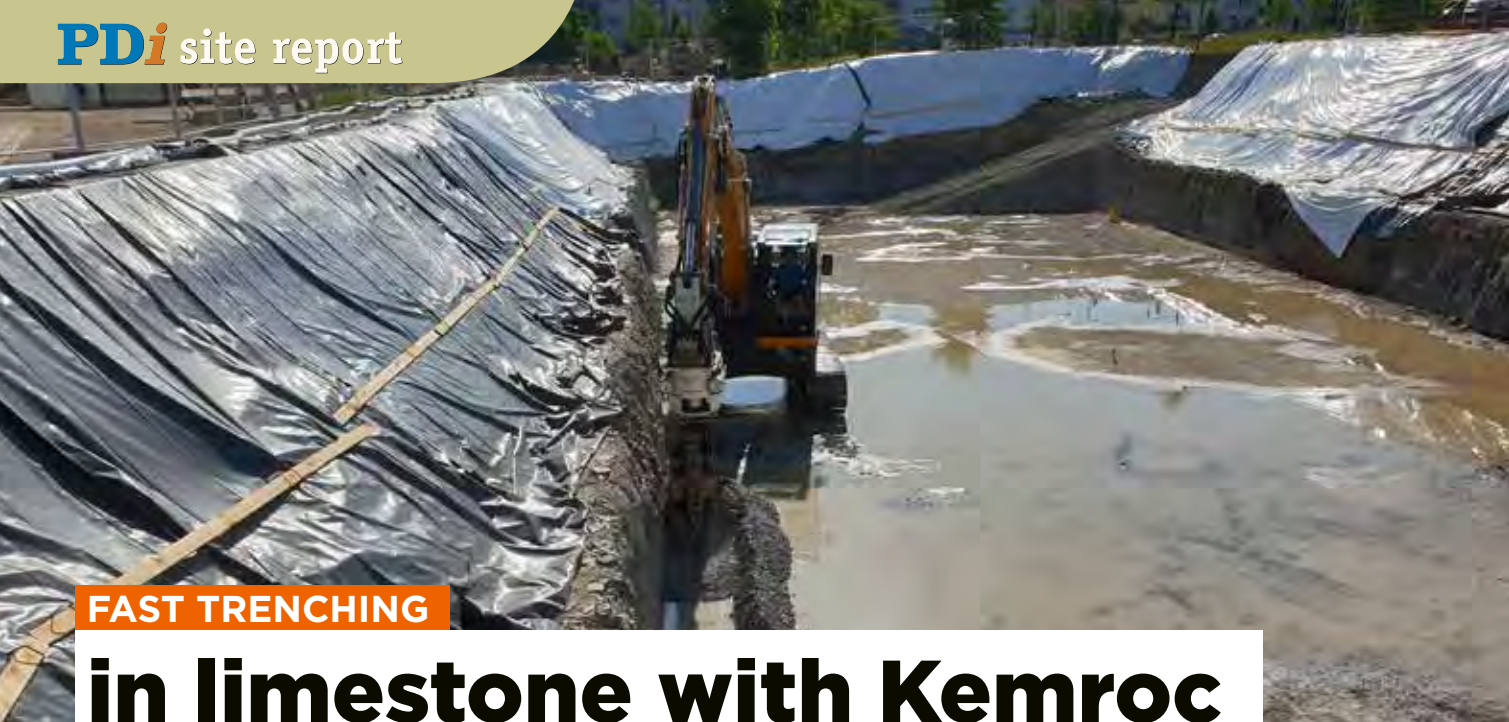
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FAST TRENCHING

in limestone with Kemroc

While preparing a construction site at the Würzburg State Fire Brigade School, the German contractor Höhn unexpectedly hit upon a deposit of solid rock. As this limestone would not fracture far below the surface when using an excavator with a drag hook, a road planer was used to level the site. Afterwards, a drainage trench was excavated using a Kemroc EK 100 chain cutter attachment with a KRM 60 rotation module mounted on a 24t crawler excavator. This method achieved the objectives in a timely manner.

The Würzburg State Fire Brigade School is currently going through a phase of massive expansion. In addition to a new training facility, the project (investment value €23M) will include a modern accommodation building and new vehicle bays. While clearing the 60m x 15m job site down to a depth of 5m, the site engineers from the contractor, Balthasar Höhn Bauunternehmung GmbH & Co., found a deposit of shell bearing limestone at a depth of 3m. This is not unusual in and around Würzburg, but in this case the rock was exceptionally hard. Contrary to previous experience with this material, which is normally found as a thinly layered sedimentary rock, it had a very dense composition. As a result, it was only possible to scrape away the top 100mm with the excavator. A self-propelled road milling machine was rented and quickly installed on site to remove the rock

down to the foundation level. They then attempted to excavate a drainage ditch around the job site using a combination of excavator and hydraulic breaker.

From the start, site manager Wolfgang Metzger could see that this wasn't going to work, so he decided to investigate using an excavator milling attachment from Kemroc. After contacting the manufacturer, Wolfgang Metzger had discussions with the company application engineer Enrico Trender and Andreas Öhrlein, the sales consultant from Kemroc's sales partner Carl Beuthauser Baumaschinen GmbH. The decision was taken to excavate the trench using a Kemroc EK 100_700 (700mm cutting width) chain cutter together with a KRM 60 rotation module.

Getting the equipment right

The EK range of chain cutter excavator attachments is part of the successful range of products manufactured by Kemroc. The unique drum cutters have a patented chain with cutter picks running between the two cutter heads and are specifically designed for the excavation of narrow, deep trenches in soft to medium hard rock. Available in a range of sizes to suit excavators up to

50t operating weight, they can excavate deep narrow trenches in rock with compressive strengths to 120MPa. Kemroc is extending the range and from autumn 2020, the 220kW model EK 220 for 50t to 70t excavators will be available followed by the EK 40 for 5t to 10t excavators (planned for autumn 2021).

The recently completed range of KRW rotation modules are already available in sizes to fit excavators from 2t to 70t operating weight. Compact, sturdy and low maintenance, this range of attachments with stepless, continuous rotation extends the scope and range of applications for all Kemroc milling attachments. When used in conjunction with a chain cutter, trenches can be excavated not only in the middle or along the axis of the excavator, but also to the side of the excavator. This saves a lot of space and the excavation of more material than necessary, which can happen when having to excavate at an angle to the line of the trench. In June 2020, the advantages of using a rotation module were very evident at the Würzburg Fire Brigade School job site. It began with the fast delivery of the correct combination of cutter and rotation module from Kemroc. Within only



The construction company Höhn had to excavate a drainage trench at the job site of the State Fire Brigade School in Würzburg. The combination of a 24t excavator with Kemroc EK 100 chain cutter proved to be ideal for the project. Photo: KEMROC

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days following first contact, Beuthauser, the Kemroc dealer, delivered on site in Würzburg a Liebherr R924 GB (24t) crawler excavator from its rental fleet together with the attachments.

Fast and accurate results

On site, thanks to the rotation module, the excavator operator was able to stand the excavator close enough to the side wall of the excavation with the chain cutter positioned parallel to the wall and facing along the desired axis of the trench. The actual time taken to excavate the 150m long, 700mm wide and 400mm deep drainage trench around the periphery of the job site was two eight hour working days (excluding a couple

of short interruptions). This equated to a production rate of approximately 10 linear m/h.

According to Wolfgang Metzger, using an excavator with hydraulic breaker or with a ripper tooth, they would never have arrived at this level of production or with such an accurately excavated trench. "Under such time pressure, excavating the trench with the chain cutter turned out to be a blessing. We were pleasantly surprised with the trench profile. Only in a couple of places the trench width went up to 800mm, where walls caved in due to the conditions where the rock was loose, exceptionally weak and layered." The trench was then cleaned out with the excavator bucket and the drainage pipe was laid. "Afterwards we used the chain

cutter to excavate two holes to house the pumps, and then we handed the site over on the day as scheduled," commented the site manager.

Paula Höhn, the managing director of the Würzburg based construction company also made a favourable report at the end of the project. "Despite considerably higher rental costs compared to using an excavator with a breaker attachment from our own fleet, the short term use of the excavator with chain cutter at the job site has paid off. Using a breaker, the work would have taken three times as long. In addition, with the current chronic shortage of skilled construction workers, we welcome anything that stops us tying up our personnel on a site for longer than necessary."



New Doosan DX235DM demolition excavator used on Milan project

A new Doosan DX235DM demolition excavator has proved to be the ideal machine for the company Seli Manutenzioni Generali Srl of Monza. It has been used for demolition work at the historic Catholic University del Sacro Cuore in the centre of Milan in the Lombardy region of Italy. Using the DX235DM, Seli has carried out demolition work on a building as part of a redevelopment project for new teaching rooms at the institution.

The DX235DM is part of a new range of high reach demolition excavators launched by Doosan to meet growth in the demolition market both in Italy and throughout Europe. The machine used in Milan was purchased from DMO, the authorised dealer for Doosan and Bobcat for the regions of Emilia Romagna, Veneto, Friuli Venezia Giulia and Lombardy (these provinces include Milan, Cremona, Mantua, Lodi, Pavia, Varese, Monza and Brianza).

Founded in the 1960s, Seli is a well-established company specialising in the construction of civil and industrial buildings. The sale of the Doosan DX235DM was organised by Gabriele Silvagni, the founder, president and administrator of DMO and Gianmaria Lupis the DMO sales manager for Lombardy. The two businesses have built a successful commercial relationship with Seli choosing DMO to be the company's main supplier for the rental and sale of earthmoving machinery. In addition to the DX235DM, Seli also purchased a new Doosan DX530DM demolition excavator and two conventional Doosan DX235LCR-5 and DX340LC-5 excavators as part of the deal.

Seli is structured into four business units - Construction, Finishing, Plant and Demolition/Excavation - each of which is managed by a technical manager with proven experience in each sector. The most recently created of these is Demolition/Excavation, which has recruited several engineers and Ivano Perego as sales manager. Since October 2019, this division has many won important orders, particularly in Milan and its province; a market for which the Doosan DX235DM is highly suited.

"The machine stands out for its great flexibility in terms of application and speed," said Riccardo Cucini, technical director and production manager at Seli. "We chose the Doosan DX235DM because it is the only

demolition machine that can be transported on the road without the need for exceptional transport and related special permits. Another reason for the purchase is the excellent stability of the machine thanks to the quick acting, hydraulically adjustable undercarriage."

DX235DM maximum efficacy and versatility

The hydraulically adjustable undercarriage is one of the key features of the DX235DM, allowing it to be expanded to a maximum width of 3.74m for optimal stability in demolition operations, with the ability to hydraulically retract the width to 2.54m making it ideal when transporting the machine. The hydraulic width adjusting mechanism works very quickly and uses a permanently lubricated internal cylinder which minimises resistance during movement. Typical of the design of the new Doosan demolition machines, the DX235DM has a high visibility, 30° tiltable cab which is particularly suited to high reach demolition applications.

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 them to use the same excavator for other applications on site as well as demolition. The innovative design ensures it is a simple process to change between an 18m demolition boom and an earthmoving boom (available in two different configurations) to accomplish different types of work on the same project.

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 successful use by Seli signals a very promising outlook for future sales of the Doosan demolition excavators throughout Italy, both for the DX235DM and the other two models in the range, the DX380DM and the DX530DM.

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Removing a tunnel step by step

Experts from Fischer Weilheim GmbH developed a new, economical method for the removal of thick concrete tunnel lining in a tram tunnel in Stuttgart, Germany. To begin with, 1.6m deep concrete walls were reduced by cutting strips using a Kemroc rotary drum cutter. A Kemroc cutter wheel was then used to cut the wall into sections, and, finally, the sections were removed, broken down and processed.

Stuttgart, the capital of the southern German State of Baden-Württemberg, is constantly changing its appearance. As a part of the major railway construction project, Stuttgart 21, numerous tunnels have had to be excavated and several existing tunnels modified. This is the case in Schillerstrasse, where the passageway connecting the new Staatsgalerie tram stop and the Klettpassage (Hauptbahnhofstop) is being rebuilt. This involves modifying a 12m stretch of the existing tunnel, with work starting in early summer 2020 when the general contractor, Ed. Züblin AG, commissioned Fischer Weilheim GmbH to carry out the work using usual methods.

The initial phase saw the gradual removing of the crown of the tunnel and the taking out of the lining at floor level while, at the same time, supporting the opening with the installation of ironwork. The demolition work proceeded by removing material from the top and the bottom of the tunnel which was done using a

hydraulic excavator with breaker and shear cutter attachments. Work then progressed to the removal of the wall lining which was made more difficult than usual due to the presence of a bituminous sealing layer and brick work between the concrete lining and the outer soil. According to requirements of the recycling industry, these materials should be separated and sorted before processing or recycling.

Using the standard demolition method with excavator and breaker, it was impossible to avoid the three layers becoming mixed together. To prevent this from happening, the contractor Fischer and the Kemroc agent in Baden-Württemberg and Switzerland, Otmar Riester, developed an innovative method of demolishing the tunnel walls in segments. Demolition work was carried out using a rented Liebherr R950 tunnel excavator as the main piece of equipment together with a breaker, a shear cutter and two Kemroc cutting attachments. With these



After cutting a segment free it is pulled down to the floor using the excavator bucket.

tools, the walls could be divided into single 4m to 6m wide sections which were then torn down and processed.

The first step saw the excavator operator use Kemroc KR 165 rotary drum cutter to grind a 1.5m wide vertical slot into the concrete wall. The wall was then narrowed to a thickness of 1m, which is exactly the cutting depth of a Kemroc DMW 220_1000 cutter wheel. The operator then switches to that tool and cuts through the wall just before ground slot. These two steps are then repeated for cutting horizontal slots dividing the tunnel lining into various segments. The next stage was to use a breaker to weaken the segment at the base of the wall before pulling it down using the excavator bucket which results in the tunnel lining wall falling to the floor. In this position, each layer of soil, bituminous material and soil can be removed separately leaving a solid piece of concrete which can be broken down using a breaker and shear cutter for removal from the job site.

Two months after the job began in June 2020, almost half of the tunnel lining had been removed. Christoph Fischer, fourth generation partner at Fischer Weilheim, is responsible for equipment and special solutions in the family company. He commented; "After a short time, it was clear that this was the most effective and economical method for the demolition and separation of material in the tunnel lining. We doubled the expected production rate compared to the single use of hydraulic hammers since it isn't so easy to get full productivity from an excavator with breaker in the confined space of a tunnel."

According to Christoph Fischer, removing the tunnel lining in segments step by step was crucial to the increased productivity. "Once each segment was torn down to the tunnel base, it was much easier to break them down using the hydraulic breaker. We could also use several construction machines at the same time. Of course, the machinery effort is very high but the saving in time was much more important on this construction site." Christoph Fischer concluded, "In addition, this is also a step forward in the demand for low emission demolition methods which is required so often these days".

Hilti again rated one of Europe's best employers

The Great Place to Work Institute has recognised Hilti as one of the best multinational employers in Europe for the eighth time. Hilti employees were particularly positive in their assessment of the family owned company's future orientation and the corporate culture that it lives by.

"I am delighted that we are once again on the list of top European employers. This award shows that together with our team members we have succeeded in bringing our corporate culture to life beyond national borders and making it tangible," explains Sabine Krauss, head of global human resources at Hilti. Ranked 14th

out of more than 3,000 participating companies, Hilti improved by 10 positions on the previous year. The European award was given on the basis of this year's awards in the national competitions in Denmark, Finland, Poland, Spain, Sweden, Belgium and the Netherlands.

The survey results clearly show that Hilti employees particularly appreciate working for a future oriented family business that gives them the freedom to try things out and explore their individual strengths. Michael Herrmann, co-owner of Great Place to Work adds: "It is remarkable how consistently Hilti manages to remain innovative and dynamic over so many years, while

maintaining its reliability. A good example of this are the flexible working time models that take into account different situations and phases in life. The trust that the company places in its employees motivates them and builds sustainable loyalty."

Great Place to Work conducts both employee surveys and management audits for its analyses. Using this basis, the organisations are assessed on six factors comprising of mutual trust, values that are lived, leadership quality, the development of the potential of all employees and the resulting innovative strength and value creation.



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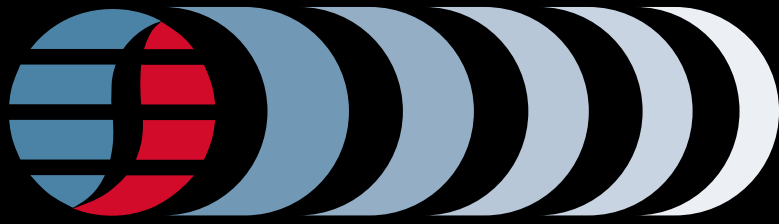
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OilQuick opens British subsidiary OilQuick UK Ltd

Interest in OilQuick's quick couplers has grown steadily over the last few decades. With the new OQTR-E tiltrotator, that interest has grown even further. Until now OilQuick has only been represented in the United Kingdom by dealers and distributors whilst having subsidiaries in France and North America. The company has now announced the creation of a new subsidiary in Great Britain.

OilQuick UK Ltd will manage direct sales, marketing and service. In parallel with this, OilQuick UK will continue to expand its network of dealers and service partners, with the current partners being Murray Plant in Warrington and Linwood, and Mutley Plant in Aylesham. Henrik Sonerud, CEO of OilQuick in Sweden comments: "This is a natural step to meet growing demand and to expand further. With our own company we have better control and can compete on equal terms. Great Britain is an enormous market that has great potential for development, both for our base product, fully automatic quick couplers, and also for our new OQTR-E tiltrotators. In Scandinavia the market is more mature and nearly every machine has both a quick coupler and a tiltrotator. In Great Britain the market is not yet as far advanced."

OilQuick has recruited Steve Parker who comes to OilQuick from ECY Haulmark Ltd. Steve has worked in the industry for over 30 years and will now be territory manager for OilQuick UK. "I am very familiar with OilQuick's quality couplers and have only had positive experiences. They are the highest quality and we can't wait to get started," says Steve, who continues, "With the new OQTR-E tiltrotators we now have an enormous market available to us. We are going to hit the market hard to reach both the users and decision makers." OilQuick UK becomes operational on 1 October 2020.

Linz AG put trust in Lindner Miura 1500 with tracked chassis

Back in 2017, Linz AG was one of the first to use the then brand new Lindner Miura 1500 at its waste treatment facility in Gaisbergerstrasse. The Miura's high performance and quality was impressive, soon leading to another order for a mobile primary shredder. Now, once again, Linz AG has opted for another Miura 1500 shredder – this time the recently launched DK version with crawler tracks.

Linz AG is one of the largest multi utility providers in the industrial region located along the River Danube. Its tasks include the supply of energy and drinking water, the provision of telecommunications solutions, public transport and the management of wastewater and waste. The company has been relying on Lindner's equipment for its waste management since 2010. What began with several of Lindner's secondary shredders from the Komet series has now grown into a complete set with mobile primary shredders from the Miura series.

A major factor has been the machines' high flexibility: thanks to Lindner's FX fast exchange system, the cutting unit can be changed on site in a minimum amount of time and adapted to suit different shredding needs. Ing. Franz Grottenthaler, Linz AG operations manager comments: "As a regional waste management company in an industrial region, we have to process a wide variety of materials. In addition to MSW and bulky waste, we also process a great deal of C&I waste. With the Miura shredder the great advantage is that we can

react very quickly to the most varied input materials of different grades.

"As we often have to process tough materials with non shreddables, robustness is, of course, also crucial. That's where the Miura shredder truly outshone the competition. For our latest purchase we decided on the new crawler tracked version. This gives us the additional advantage that we can manoeuvre the machine comfortably without having to have additional equipment on site." In addition to the new version with a tracked chassis and Lindner's typical sturdiness, the latest Miura 1500 sports powerful and economical Scania Euro-5 engines and highly efficient hydraulic components to ensure maximum productivity in mobile twin shaft shredding.

Linz AG provides energy, telecommunications, transport and municipal services, being a management holding with three operative subsidiaries. The Linz AG subsidiary, Linz Service GmbH is responsible for the waste management of the provincial capital and the 63 surrounding municipalities offering services such as water supply and wastewater management. The business area Waste includes different facilities such as a waste to energy plant, which makes it possible to independently treat the majority of the region's waste. The portfolio includes services ranging from municipal solid waste to bulky waste collection and container service, all the way up to around 380 waste collection points for paper and board, light and metal packaging as well as glass.



Lindner sales manager Clemens Jäger (1st from left) with the Linz AG team around operations manager Franz Grottenthaler (5th from left) at the commissioning of the new Miura 1500 DK mobile shredder.

Steelwrist expands mini excavator line

The demand for more versatile solutions for very small excavators below 2t continues to grow. Solutions in this range not only need to be versatile but also robust and cost effective. As a result of these demands, Steelwrist is now expanding its product portfolio, with the fully cast TCX S30-180 and S30-180 products. Both types can be delivered with manual locking or hydraulic locking depending on customer needs.

Steelwrist introduced the first steel cast quick coupler in 2012 and now have many thousands of such products in the field. The advantages with casting are now well understood, where the combination of strength versus weight is superior when compared to welded solutions. Additionally both the TCX and S30 quick

couplers come with a front pin safety hook that complies with the new regulations for quick coupler safety.

With the tilt coupler customers are provided with a safe yet quick coupler solution and a tilt function that makes the excavator far more versatile, with installation being easy, with the compact TCX also having low weight. It is suitable for excavators' up to 2t and is available direct mounted with a S30 coupler, both manual and hydraulic. The TCX replaces the TMX tilt coupler in the product offering.

The fact that the S30 quick coupler and TCX tilt coupler are free from welding, has large pin contact surfaces and optimised material thickness, creates an extremely robust design which will ensure a longer operating life.



Dehaco demolition and sorting grabs

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Varia Versilia Ambiente and Cams

IN THE QUEST FOR SUSTAINABILITY

Cams Srl is a leading player in RAP recycling, while Varia Costruzioni is a leading public works contractor in Tuscany, Italy. The two companies have been working together in developing environmental protection solutions and technologies.

Cams was founded in 2001, inheriting 40 years of know-how through the acquisition of the TEM brand, a producer of waste crushing plants since 1964. Cams has also been active in research and development, being attentive to meeting the needs of the market with innovative solutions with exclusive patents. In recent years, Cams has dedicated part of its research to asphalt recycling, giving the company the opportunity to start a long term project in collaboration with Alma Mater Studiorum of the University of Bologna. Among the technologies developed specifically for the treatment of asphalt has been the CTR 1200 secondary crusher, which is equipped with teeth specifically designed to create a product with 100% of the bitumen contained in the recovered material. Amongst other innovations, Cams has recently patented at international level a system of mechanical fingers, so called 'pushers' that allow the feeding into the grinding vents not only the milled asphalt but also the asphalt slabs. Equipped with knives to reduce the slabs dimensionally and to increase the grip capacity of the counter-rotating shafts, material can be processed that would otherwise be landfilled.

Established public works contractor

Varia Costruzioni was created in 1949 by Onofrio Varia, and is now run by the fourth generation of the family. This has led the company to develop and engage in a constant search for technological advances to provide environmental solutions, with Stefano Varia also being the current president of ANCE Toscana Nord for the provinces of Lucca, Pistoia and Prato. In 2019, Varia Costruzioni celebrated its 70th anniversary and now op-

erates from four production sites: one in Lucca, another in Montebonelli producing recycled aggregates, and two located between Lucca and Pietrasanta. The latter are focused on recycling milled asphalt and the production of bituminous conglomerate, recycling 200,000 tons per year of construction and demolition waste.

Breakthrough meeting

Varia Costruzioni began producing asphalt tar conglomerates, and with Europe making great strides towards a circular economy, the company developed an asphalt recycling system using an existing plant. Once the po-

tential of the system was evaluated, Varia Costruzioni began collaboration with University of Pisa to refine the process. The research in this field led to the company to look for potential partners that could support the development of its mill recycling process, beginning a dialogue with Cams which was selected to be Varia's strategic partner for the development of its system.

Noticing the growing global focus on waste recovery, Cams has aimed to be a step ahead in trying to improve process efficiency by developing more and more cutting edge technology geared to the production of materials of superior quality and also providing economic return on the purchase of the plant. Stefano Varia further explains why Cams was chosen as its supplier for the treatment of RAP (reclaimed asphalt pavement): "The ability of the UTS line of Cams to disrupt the material, bringing the particle size curve back to parameters similar to those of the pre-aggregation and, at the same time, to leave virtually unchanged the bitumen content on the inert. These machines make the grinding process much more efficient than the traditional mixing with hammer mills."

The partnership led to Cams developing specifically for the Varia companies a system that includes a UTS 1000-2 primary crusher and a two-storey UVS 25/2 screen. The plant is able to provide two finished products of different grain size without producing any waste. Through a conveyor belt system, the oversize material coming from the UVS 25/2 is reintroduced inside the hopper to be further processed to obtain the required size. The high efficiency of the plant both in terms of mixing and screening, allows Varia to put the material



Mr. Stefano Varia, owner of Varia Versilia Ambiente and Varia Costruzioni.



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directly into the production cycle of the bituminous conglomerate, providing acceptable product specifications.

A solution that respects the environment

Cams now has over 800 customers around the world. As to why they have chosen Cams plant, Andrea Trentini, commercial director of the company, explains: "Our team of engineers and designers has an innate passion for innovation and we vendors never tire of testing them. We work together to satisfy the customer and every new request is answered. We could say that Cams have never come out two equal plants. Every customer, as well as every market, has a different need and we must satisfy it. The endless customisation possibilities that Cams offers allow continuous jumps of quality. At first, we study the environmental protection systems, then develop the machine so that it has the least possible environmental impact."

The crushers also have low levels of dust emissions and low operating noise being equipped with noise and dust abatement systems to keep them below 75dB. Another 'green' aspect is the power supply to the machinery with all being hybrid or electrically powered. In addition, the low speed rotation technology of the crushers' shafts, as well as ensuring the quality of recycled materials,



The Varia Costruzioni site for bituminous conglomerates production.

requires very low fuel usage and causes little wear of the components significantly reducing maintenance costs.

The future

Cams technological evolution continues with '4.0 Industry'. This uses an electronic weighing system positioned that when unloading materials is able to detect the quantity of material produced and communicate the data to the company servers thereby optimising the logistics of

the recycling operation. Through the installation of GPS devices, it is also able to control the systems remotely and provide diagnostics even on machinery located at the other end of the world. "Our technicians travel all year around the world and can reach the customers in a short time, but knowing the problems before the arrival of our experts allows us to reach to the site prepared and already equipped with any spare parts needed, thus reducing the recovery time," concludes Andrea Trentini.



Scrap recycling company from the UK turns green with Sennebogen 830 E series

Synetiq, the largest salvage and vehicle recycling company in the UK, has invested in a new Sennebogen 830 E series scrap material handler supplied by Molson Green.

Synetiq has been on a remarkable growth trajectory since it launched last year, following the merger of four well established businesses from the salvage and vehicle recycling industry. Now arguably the largest business of its kind in Europe, Synetiq has sites positioned throughout the UK, including an impressive site in Doncaster that is home to its new Sennebogen 830 E series.

End of life vehicle recycling

There are several avenues a vehicle can go down once it arrives through the gates of the Doncaster site. Vehicles which are listed as Category S or N write offs are deemed as suitable for repair. These are prepared and sold via Synetiq's own online salvage auction which is used by

vehicle traders and repairers worldwide. Category B vehicles are not suitable for repair, but some may contain parts which are perfectly suitable for reuse. These are cleaned, prepared and quality controlled before being sold to a wide range of customers. The shells of these vehicles are crushed on site, ensuring they can never return to the road. After this process, Category B and other ELVs (end of life vehicles) can begin the compliant recycling process. Once an ELV has been de-polluted and harvested of any undamaged or reusable parts, the remainder of the vehicle is transported to the baling plant to be recycled.

830 E series integrated in the core processes on site

Ray Curry, operations director at Synetiq, describes the baling plant at the flagship Doncaster site as the

'beating heart of the business', with approximately 80% of the vehicles being handled by the Sennebogen material handler before being loaded into articulated wagons. Ray Curry says, "On a busy week the baling plant can process around 700 vehicles. With that sort of throughput, the reliability of our plant and machinery is key. With lorries constantly delivering new stock and taking away processed vehicles, a breakdown can easily cause our operation significant problems."

A wide variety of equipment options

Synetiq chose an 830 with mobile undercarriage, which offers an impressive 17m reach. Using the four outriggers to stabilise the undercarriage, the operator can remain in one location and pick the stripped vehicles safely, load them into the baler, stockpile them once processed and even load incoming trucks without having to move. To assist operators in completing tasks more efficiently, the 830 E series has an elevating cab, with additional windscreen and roof protection allowing the operator's eye level to rise to approximately 5.65m. The operator can then see clearly into trailers when loading, ensuring the load is filled to maximum capacity with a greater degree of accuracy. Inside the cab, the operator has an uninterrupted forward view thanks to the ergonomically designed joystick control which has no steering column that blocks the operators' view to the ground where the majority of sorting is completed in this application. It additionally has sensitive response behaviour for precise sorting and piling tasks.

Molson Green sales manager, Dave Peacock said, "Ray and his team were very clear from the outset on what the machine had to do and underlined how we had to support them as a dealer. Any concerns about the after sales backup support from Molson were quickly addressed when we discussed our 10 service locations, significant stock holding of spare parts and the network of over 75 service engineers."



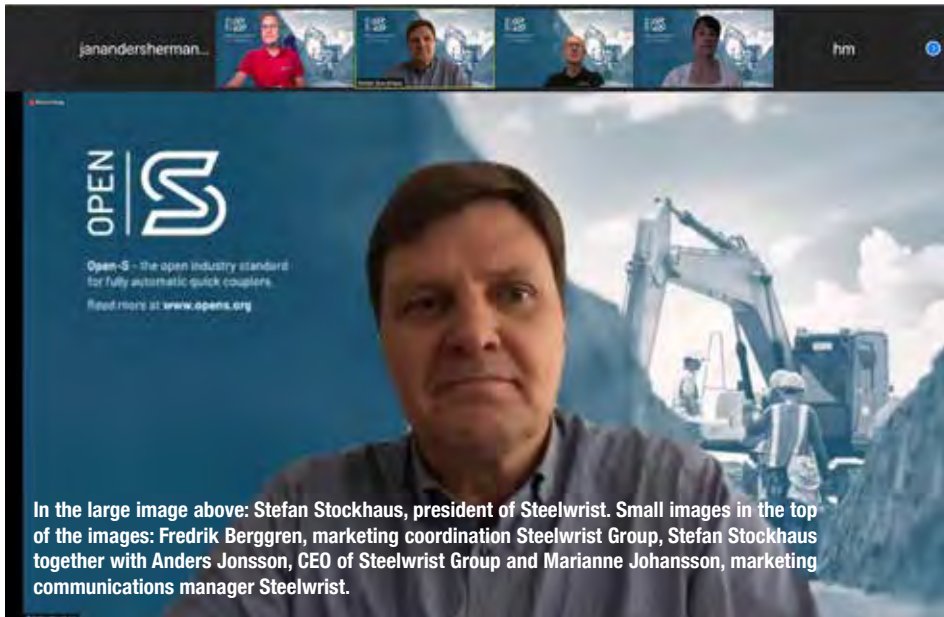
Versatile bucket from Cobra big hit in Russia

The Cobra screening bucket is designed for screening soil, peat, coal, sand and other bulky materials. In addition, it effectively crushes, aerates, grinds, and mixes various materials. One of the most popular applications of these screening buckets is in sorting construction waste; as a result, some Russian companies have begun to recycle such material.

One of the major construction companies in Moscow turned to Cobra for help. The company's construction sites often produced large amounts of soil mixed with construction waste comprising of concrete, bricks, gravel, rebar mixed with soil. Following the example of many Western companies, the company decided to begin recycling this construction waste, with the initial task being to divide construction debris into components, removing the soil from first of all.

A 20t Hitachi zx210 crawler excavator was selected as the carrier vehicle for the 1.4 m³ Cobra S3-180 screening bucket which was delivered from the factory in Finland to the customer's site in Moscow. By this time a lot of work had accumulated for the bucket and the first application on the customer's site was screening stale wet peat. This lowland peat was brought from the fields and was loaded with various sticks, stones and other materials. In addition, the peat was quite wet and partially caked with many pieces of the peat requiring crushing prior to sorting. The client had a large trommel screen, but with a lump of peat there was nothing that could be done to break the material down so was ineffective.

The Cobra screening bucket successfully completed the task, sifted the peat, removed the unwanted materials and simultaneously crushed the caked peat pieces. As a result of screening, fine grained already aerated peat was obtained, ready for shipment to customers. The next task for the screening bucket was screening construction waste, which was initially the reason for purchasing the equipment, which comprised of a mixture of concrete, bricks, rebar and wood. As a result of screening, clean soil was obtained, ready for creating soils and peat mixtures.



'Open-S' the open standard for fully automatic quick couplers

Open-S has been developed to be a standard for fully automatic quick couplers for excavators, being launched on 1 October 2020. Machine operators can combine machine couplers, tiltrotators and tools from different manufacturers that are in compliance with the standard and be confident that they will be compatible with each other. Products that comply with the standard are marked 'Open-S'.

"Open standards make everyday life easier, whether it's plugs for electrical sockets, computer connectors or excavator quick couplers," says Stefan Stockhaus, Steelwrist AB CEO. "Open-S also builds on the independent and established standard that already exists for quick couplers, the 'S Standard'." The standard has been developed jointly with the Rototilt Group, whose CEO Anders Jonsson, explains: "We believe in healthy competition, where the industry's players compete to have the best products. We don't want to lock customers into a closed interface. When customers buy a tiltrotator from Rototilt, they should feel confident that any hydraulic tool that complies with the Open-S standard will fit the tiltrotator." The new development was introduced at a digital press conference held on 1 October, jointly organised by Steelwrist and Rototilt.

to take the first step towards a fully automatic quick coupler system.

Open and independent organisation

Open-S is owned and managed by an independent organisation, Open-S Alliance, which in turn is led by a council of engineers from the member companies, currently tiltrotator manufacturers Steelwrist and Rototilt, with more members being welcome. "Interchangeability is the point. Any reputable manufacturer who believes in the usefulness of a common standard is welcome. We are already in talks with more manufacturers who want to join in the Open-S standard," concludes Stefan Stockhaus.

Further information may be found on the dedicated website: www.opens.org

Freedom, safety and development

The standard is based on giving freedom for end users to choose the preferred equipment with reliable safety solutions and to benefit from continued technological development. "Because we have agreed on how to connect the products, customers can freely choose from the product portfolio from the manufacturers that comply with the standard. It becomes clearer what fits together and which warranty provisions apply," explains Anders Jonsson. Both Steelwrist and Rototilt are seeing that more customers are adopting this type of solution, with the Open-S standard making it easier for contractors



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ROTOTILT RELEASES SECOND GENERATION

‘QUICKCHANGE’

The Swedish manufacturer Rototilt has digitally launched its new generation of fully automatic quick release systems: Rototilt QuickChange.



Rototilt launched the first generation of QuickChange in 2008, with the ‘quick release’ being at the bottom of the system. The latest development uses a ‘sandwich solution’, with QuickChange being located both at the top and the bottom of the system.

Two years of development work

The launch of the system was undertaken digitally, with the live broadcast being led by the company’s sales manager in Sweden, Markus Olofsson. During the broadcast, the benefits of the new generation were carefully explained. Rototilt’s development manager, Pär Olofsson, said that they have been working for more than two years on the new generation of QuickChange. “The

whole work started with an in-depth market research and we studied the pros and cons of existing systems on the market and talked to many users. We carefully investigated what was good and what was bad, and what we could change to the better,” says Pär Olofsson.

Five goals were set up in the development work: the first was to eliminate everyday operational disruptions and the second to eliminate the risk of large and extensive operational disruptions that cost money. The third goal was to maximise the life of the entire coupling member (such as attachments). As a fourth goal, the system would have to comply relevant regulations, and finally, it needed to increase system performance by as much as 20%. The security of the system is something that has been a common thread throughout the project,

with Rototilt’s award winning ‘SecureLock’ system being used in the new QuickChange.

When the actual construction of the entire system was determined, a series of tests took place. “We have tested the system in every conceivable way down to the smallest detail in our own lab and out in the field countless times. A large number of users have run the system and come up with a number of tips. And now we are ready to become public with the system,” says Pär. (The launch was originally planned to have taken place at various exhibitions but the advent of the coronavirus pandemic made this impossible.)

Smart functions

Sven-Roger Ekström was the next speaker at the virtual



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From left: Rototilt Group's CEO, Anders Jonsson and sales manager Sweden Markus Olofsson.



Sven-Roger Ekström presents QC70.



Rototilt Group's development manager Pär Olofsson.



Rototilt Group's product manager Sven-Roger Ekström.

launch and meeting in May. Ekström, who is a product manager at Rototilt, said that the system is being built entirely in Sweden. Like all other quick coupling systems, QuickChange means that the excavator operator does not have to leave the cab when changing tools. In seconds any change can be made quickly and easily from one tool to another without the risk of leakage or the tool coming loose. An automatic mechanism protects the sensitive

parts and the bracket itself so that dirt does not enter into the system. When changing tools, the bracket opens and the tool locks. Another function that protects the system is that springs are built into the coupling which means that any pieces of dirt or metal pieces do not move further and damage the system thereby eliminating operational disturbances.

The QuickChange HD (intended for really heavy

tools although the system is also available for lighter equipment such as compactors) was demonstrated at the virtual presentation. Ekström says that they are now in full series production of QuickChange. The interest from customers has been reported as 'great' with the QC60 and QC70 now being manufactured, with several sizes being released during the year. "I really believe in this system and that it will replace many standard systems," says Ekström.

THE GROOVY STORY OF JOHN STALLMAN

Every industry has its legends: one of a kind, larger than life figures that define it and lay the path for others to follow. Concrete sawing and drilling has its fair share of giants, too. John Stallman, a trailblazer in runway grooving techniques whose career spanned nearly six decades, is one such individual. By Andrei Bushmarin.

Runway grooving is a very niche yet universally required technique. Employed to eliminate hydroplaning on runways, grooving is integral to the safe take-off and landing of an aircraft. A fighter jet loaded with armament sliding off the runway can cause a whole lot of trouble so airport operators tend to keep a weather eye on every experienced groover.

Well engineered beginnings

John Stallman was born in Rochester, New York on 1 February 1936. Having finished at the local high school, he did a two year stint in the army before entering Syracuse University. He graduated from it in June 1960 with a Bachelor's Degree in civil engineering. Following graduation, John worked as a design engineer in New York City for about a year. Then he relocated to Trinidad BWI to join a US\$25mln sewer project sponsored by the World Bank. John's wife, Marcelina Edith Davies, was born in Trinidad, and it was Marcelina's father who alerted him to this opportunity. John spent almost five years in Trinidad working his way up from a field engineer to project manager. From a professional point



John Stallman, a legend in the concrete cutting industry.

of view, it was a formative experience for a young John Stallman. After that he worked for the same company in Los Angeles and Okinawa before moving to Honolulu, Hawaii in 1968 to run a prestressing manufacturing plant. It was there that he earned an MBA post graduate degree in International Finance from the University of Hawaii graduating in 1971. Since that time, Hawaii would be playing a vital role in John Stallman's life, eventually becoming his home base and residence.

Business owner and consultant

In 1971, an investment group that John Stallman was a part of bought 49% of Concrete Coring Company Hawaii. At the time, the company's founder and 51 % owner was the legendary Ed Dempsey – the very man who pioneered the use of high cycle 400Hz motors in concrete cutting. Following a series of twists and turns over the next two years, John Stallman gained full control of the investment group and the contracting company, thus becoming a business owner. The contracting company was set up as a union shop, starting out using experienced operators from California before training its own staff. With his MBA and strong engineering background, John Stallman played consultant to numerous others in the industry throughout his career, overseeing their progress to senior management positions.

Getting into the groove

In the early 1970s, the FAA (Federal Aviation Administration of the US) began promoting runway grooving techniques as a means to prevent hydroplaning. In Hawaii, a first project of this kind was executed at Hilo International Airport by a Texas based contractor. This led John Stallman to research the business and arrange a lease of a grooving machine with an experienced operator to train his personnel. The first grooving task that Concrete Coring Company Hawaii completed on its own was in Lihue Kauai in 1974. From that moment on, runway grooving became John Stallman's pet project to market, bid for and oversee every aspect of.

In 1975, the company executed its first international contract (albeit in cooperation with Concrete Coring Company, Tokyo) in Yamagata, Japan. Thanks to John's expertise and equipment, the Tokyo based contractor was able to secure the first ever grooving contract in the country. In this particular case, hydroplaning was not the only reason for grooving; the runway was too short for a jet to land and, like many others, the Yamagata airport authorities wanted to upgrade it from turboprops to jets, with grooving of the runway making jet landing safe with braking.

Over the course of twenty years, Concrete Coring Company Hawaii completed some 30 grooving missions all over Hawaii as well as in Guam, Hong Kong, the Philippines and Micronesia. In 1995, John sold his interest in the company to his employees under an ESOPS (Employee Stock Ownership Plan) agreement. In the latter years, they managed to increase the company's annual turnover from US\$4-5mln to US\$25-30mln, with John's name being on the building's facade to this day.

Operation 'Hong Kong'

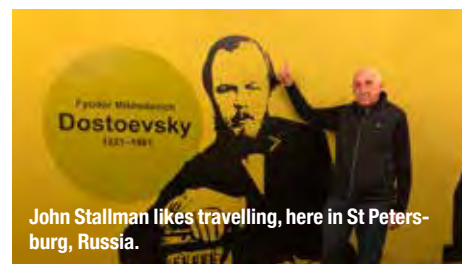
When the Hong Kong government awarded a repaving and grooving contract for Kai Tak Airport's solo runway to the Anderson Asphalt Company in 1992, its chief engineer did his due diligence and found out that Concrete Coring Company Hawaii had done similar jobs in the Philippines, Japan and Pacific islands. He flew over to Hawaii to evaluate the contractor's equipment and capabilities. By that time John had already set up Concrete Coring Company Hong Kong, obtained a residency



A test strip on an asphalt roadway at Bangkok Airport.



John Stallman (left) and Samson Pei (right), the owner of Drillcut Ltd and a cult personality on the Hong Kong concrete sawing and drilling scene, sometime in the late 1990s.



John Stallman likes travelling, here in St Petersburg, Russia.



Runway grooving on a US military base on the island of Diego Garcia, in the middle of the Indian Ocean.

permit, met all local contractors and completed his first grooving job in Macau for a specifier from mainland China. In Hong Kong he befriended Samson Pei, the owner of Drillcut Ltd and a cult personality on the local concrete sawing and drilling scene. At Samson's request, John became his wingman, running the business together until 2001. It was John Stallman who introduced Samson to the CSDA and American suppliers, techniques and equipment. Concrete Coring Company Hong Kong was operational until 2014 and during that time finished 14 runway grooving and repairing projects in various Pacific Rim countries, the US and India.

Some groovy tales

After 40 years in the runway grooving business, John Stallman has a bagful of exciting tales to tell. In the 1980s, there were no more than 50 companies worldwide that had the equipment and expertise to undertake runway grooving, so every project was truly unique. For instance, for a job on the island of Pohnpei (aka Ponape) in 1981, John Stallman set up the entire operation in two 6m shipping containers. One was used to transport the machine, parts, tools, generators, lights and hoses while the other was used for a vacuum tank with more hoses and accessories (vacuum tanks are necessary to capture the

water and slurry to keep the runway clean for use). This mobile set up allowed John Stallman to go anywhere a freighter could drop off the containers. In between jobs, John stored his machinery on the US island of Guam.

Another unforgettable experience involved runway grooving on a US military base on the island of Diego Garcia, which is in the middle of the Indian Ocean. A B1 bomber had hydroplaned off the runway into a grass field with a full armament load. Since that base was a departure point for all the bombing missions in the Middle East, Congress got involved and demanded the concrete runway be grooved immediately. John Stallman was located relaxing on a boat in Hawaii, and had to cut his vacation short, rounding up six operators, locating and leasing two machines and set to work. The machines were delivered by Korean Air on a Boeing 747 to a Singapore military base from which they travelled to the destination by ship.

In 2010, John Stallman sold his machinery to Cardinal International together with a non-compete and consulting agreement to assist them in taking over the Asian market. He consulted Cardinal on projects in Micronesia and Papua New Guinea in 2012 and 2013 finally retiring from the industry to his home in Honolulu, Hawaii in 2018.

AT Spezialbau cut 20,000m through the 400mm thick runway at Stuttgart Airport



Lissmac machines make short work of

70,000 M² OF CONCRETE RUNWAY

On regular days, some 400 planes thunder over the runway at Stuttgart Airport. After 25 years of constant stress, the concrete had started to crumble but airport managers took advantage of the corona related downturn to replace 1,200m of runway using Lissmac floor saws to cut the steel reinforced concrete track into pieces suitable for excavation.

The mammoth runway project began on 6 April 2020 with completion being scheduled for 18 June 2020. Peter Harig, Karlsruhe branch manager at SAT Spezialbau GmbH, experts at sawing and cutting technology, is confident of meeting the deadline using Lissmac floor saws. "In Stuttgart, the floor saws run 24h a day. The technology has to work 100%. Breakdowns simply cannot occur. Lissmac stands for reliability and performance - and has been our brand of choice for years," says Harig. Simply put, there is no time for troubleshooting and repairs on such a tightly scheduled large scale construction site. Only when the concrete slabs have been cut can the excavators get to work with hydraulic hammers, grabs and shovels and prepare a fresh bed for the new surface.

"Everyone has to wait if we don't keep to the schedule. That would be unthinkable. Our entire team is fully committed and uses their experience and expertise to ensure that the cutting work runs like clockwork," says Harig. In order to complete the project to the tight deadline, SAT Spezialbau strengthened its arsenal of machinery. The company acquired a Lissmac Unicut UC 520 floor cutter with side cutter and depth cutting device, together with another Lissmac UC 520 and a Lissmac Multicut MC 900 to provide a formidable team.

Made for serious business

The work required 20,000m of deliberately placed separating cuts, which the specialists from SAT Spezialbau milled into the disused runway at Stuttgart Airport in just four weeks. The cuts through concrete and iron were up to 400mm deep forming the essential preparatory work to transform 1,200m of runway into 28,000m³ of

rubble. The Lissmac UC 520 used in a double pack is designed for such work during joint cutting. The joint cutter is supplied with power and endurance by a high torque, low vibration Deutz 4-cylinder diesel engine which delivers 74.4kW. The saw blade diameter can be up to 1,500mm with maximum depth of cut being 630mm. The machine also provides its driver with several seating positions, whilst the Lissmac developed intuitive operating concept with multifunctional joystick and clear central display has been developed in collaboration with long term users.

Adaptability with side cut device

SAT Spezialbau ordered the new Lissmac UC 520 with the optional side cut device which is used to cut expansion joints and transverse joints in fresh concrete.



Michael Harig (left), deputy branch manager of SAT Spezialbau GmbH Karlsruhe, receives a new Unicut 520 floor cutter from Hermann Schnieringer, key account manager Lissmac.

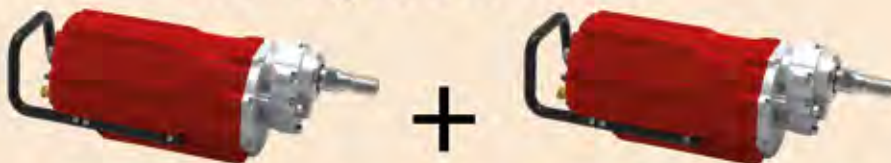
In order to do so, the saw blade and the blade drive can be moved along the joint cutter beyond the wheel base. This makes it possible to execute cuts right up to the edge of the road. Peter Harig is enthusiastic about the benefits of the side cutter: "The Unicut 520 can be switched from deep cutting to fresh concrete cutting with just a few simple steps. We made extensive use of this extremely practical function in Stuttgart and, in addition to the 20,000m of cutting in old concrete, we also made 20,000m up to 25cm deep of fresh concrete cuts. All with one machine, without wasting time on tedious retrofitting."

Strong team performance

The tightly scheduled task at Stuttgart would not have been possible with just a single high performance floor saw. The team at SAT Spezialbau planned sufficient machine output and, in addition to a second UC 520, also brought a Lissmac Multicut MC 900 to the airport construction site. This is available with a 55kW Hatz 4-cylinder diesel engine that complies with the current Euro Stage V emissions standards. Thanks to its smooth axle steering, the machine can be operated by hand without a great deal of effort, with the low vibration drive and straight running of the MC 900 ensuring stress free operation. "Our machine operators benefit enormously from the excellent directional stability and the overall easy operation of the Lissmac floor saws. Concentration and motivation remain high even on this tough ride of over 20k. There were no breakdowns. We are proud of our performance. We are ready to go for the next job," says Peter Harig.

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Maeda's first fully electric powered mini crane the MC285CB-3 with zero emissions

Delivering the capacity, reliability and flexibility required for the most demanding operators, the new Maeda MC285CB-3 builds on the successful legacy of the MC285C-3 model. Equipped with a strong lithium-ion battery, it provides zero emissions and still equals its predecessor in both operation speeds and lifting capacity.

The new MC285CB-3 is the first fully electric mini crane from Japanese manufacturer Maeda. It makes the regular MC285C-3 even more versatile and environmentally friendly. It features include a lithium-ion battery with fast charging speed, monitor display, programmable moment limiter, multi-outrigger positions, slew angle limit settings and HBC radio control. Maeda has been making tools since 1962, developing technology and skills over many years.

The lithium-ion battery on the MC285CB-3 can be operated continuously for over 9 h, and be fully charged in only 3.5h. Additionally, continuous operation is possible while charging which facilitates use and delivers minimum downtime. The crane capacity and operating speeds have not been compromised, equalling the regular MC285C-3. The battery operated MC285CB-3 has a maximum capacity of 2.82t x 1.4m, a maximum lifting height on the ground of 8.7m and a maximum working radius of 8.205m x 0.15t.

Improved energy efficiency and productivity, as well as reduced ventilation needs and maintenance costs, are some of the other benefits. With what is said to be absolute zero emissions, the crane can be used in sensitive indoor environments and where the strictest regulations need to be observed. White rubber tracks come as standard with black rubber tracks as an option. Operating the MC285CB-3 is easy and intuitive with a reliable and ergonomic paddle lever remote control, whilst the 100% electric power results in low noise levels and thus improves the working environment. The low machine weight of 2,000kg makes the crane easy to transport between work sites and to be located at higher levels when working on glazing and cladding in buildings.

Jurgen Vater, CEO of Kranlyft Group says of the new development: "After an intensive period of research and development, Maeda can now proudly launch this innovative and eco-friendly model. The team at Maeda has developed a battery powered mini crane with market leading features in appliance with their policy of perfection in terms of precision and safety. Our customers and dealers have already shown great interest. We are confident that it will meet our expectations and lead the way in the next level of green and sustainable lifting with mini cranes."



Mecalac introduces 'MYMECALAC' CONNECTED SERVICES

Mecalac has introduced a new connected service to support its clients' efficiency and profitability, developed in partnership with Trackunit, a key player in telematics platforms solutions. Comprised of a web portal (mymecalac.com), and a mobile app 'MyMecalac', the service spotlights machines in need of immediate care allowing technicians to stay one step ahead of potential breakdowns. The web portal provides information and adds to the knowledge hub empowering fleet managers, machines owners and drivers in order to boost efficiency, safety and machine uptime by giving access to everything from high level summaries, right down to specific machine details.

The 'wash-bear' from Orba Group Ltd

London head quartered, but covering the whole of the UK and Ireland, Orba Group Ltd specialises in the supply of machinery solutions for recycling, construction, demolition and waste management as well as providing bespoke solutions for these industries. The company is also the official UK/Ireland dealer for wash-bear machinery, manufactured by Moerschen GmbH.

The processing involved in breaking materials down to RC material is part of the everyday business of the construction and material handling industry. The wash-bear has been designed to service businesses in these sectors through highly efficient technology for separating lightweight materials from building rubble. The wash-bear works according to the proven floating-sinking principle and reliably and cleanly separates light materials such as wood, artificial and insulating materials from the minerals.

In addition to its process efficiency, which ensures almost 100% separation of contaminants and mineral

fractions, the wash-bear also scores thanks to its high levels of process effectiveness. This results from the economical handling of the resources to be used through the robust, maintenance free design of the system technology. The closed system consumes whatever water adheres to the discharged mineral meaning that in a 10h shift 4-8 m³ is used in practice.

The water used is absorbed into the basic moisture of the RC material. What comes out with regard to the chemical composition, at most, is what was discarded by the rubble in the system. The economy of the system continues with the energy expenditure, which at 8-15kW/h during operation is significantly lower than an air sieve with a similar performance. Nevertheless, the drive power is enough to start the wash-bear in full load.

In effect, the wash-bear is a highly efficient mobile piece of equipment for separating lightweight materials from building rubble with extremely low operating and

maintenance costs. There is no accruing waste water, no sediment residues and is flexible enough to provide bespoke solutions for special applications, as well as being easily integrated into existing systems meaning that manual sorting is no longer necessary.





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