

UPDATES FROM BLASTRAC, PAGE 78

VOLUME 21 • ISSUE No. 3 June - July 2021

Special Feature THESE SAWS TRULY ROCK

Pages: 40-43

ONE SAW BLADE FOR ALL MATERIALS

NEXT GENERATION

FROM HUSQVARNA

BATTERY POWER CUTTER

Page: 54

News

Page: 56

Reports UNIQUE DEMOLITION PROJECT IN STOCKHOLM

Pages: 20-25

WALL AND WIRE SAWS SYSTEMS

Pages: 50-52

Special Feature

THE MINI EXCAVATOR MARKET IS BOOMING

Shows **WOC 2021:**

SMALLER IN IZE BUT BIGGER IN HOPES

Pages: 70-72

Site Report

Pages: 28-33

Special Feature

JPPRESSION

NEW DUST

EQUIPMENT

DISMANTLING A
BRIDGE USING A
LARGE EXCAVATOR
AND A KEMROC
CUTTER WHEEL

Page: 35

Shows

DEMCON MOVES TO 24-25 NOVEMBER 2022

Page: 77





DST 10-CA electric wall saw



DD 350/DD 500 coring system



DST 20-CA electric wall saw



DSW 1510-CA electric wire saw

CutAssist the electronic assistant raising your sawing productivity is now available for all sawing applications. The new DSW 1510-CA electric wire saw with automatic wire tension and power control brings you new found freedom thanks to wireless remote control.









BEYOND EXPECTATION ONLY WIRE!



Groove



Ø15.0*40 bpm

Steel



Ø10.2*48 bpm

Concrete



Ø10.5*40 bpm

Finish



Ø 9.0*48 bpm

www.widecut.com



Professional Demolition International Magazine

Address: P.O. Box 786.

Visitors address:

ISSN 1650-979X ISSN Registration:

EDITORIAL STAFF

Editor-in-Chief

Assisting Editor-in-ChiefAnita do Rocio Hermansson

Editor: Vitor Hermansson, vitor@pdworld.com

Editor Europe: Mikael Karlsson,

Editor North & Central America

Jim Parsons, jim.parsons@pdworld.com

Editor South America

Editor Russia & Eastern Europe

andrei.bushmarin@pdwo<u>rld.com</u>

Kevin Mayhew

SALES OFFICES

International Sales Director

Germany/Austria/Switzerland/UK & Irland /BeneLux/Finland/France/Spain/Portugal and Italy

Phone: +7 921 949 27 81

Sweden/Norway/Denmark/Liechtenstein/North America/South America

André Hermansson Phone: +46 (0)8 631 90 70, Mobile +46 (0)70 979 04 03

Australia/New Zealand/Asia Pacific/Korea/Japan







CONTENTS

REGULARS

Editorials

6 Sustainability and environment, our way

8 It's not over until it's over

10 Let's talk about the circular economy

Associations

6 Interamianto joins EDA as a new member

Business

6 Hilti back to growth

Doosan sponsors team in Porsche Mobil 1

8 Chinese President Xi visits LiuGong

Wacker Neuson makes a successful start

10 Terex announces new manufacturing facility

Christoph Burkhard named new CFO

14 Scanmaskin Group appoints Per-Anders Bardh as new CEO $\,$

Brokk relocates Washington State US facility

Awards for Hilti innovationst

McCloskey appoints new senior sales director

Jobsite Report

26 Doosan mini and crawler excavators

Belgian company focuses on small equipment

35 Dismantling a bridge

Construction sites can become a recycling centre

46 Decom chooses Bobcat 'Waste Expert'

Sennebogen mobile electric material handler

Trenching in sandstone fast and accurate

58 Tana mobile waste shredder

Impaktor 250 evo

News

12 Blastrac is releasing a new small planetary grinder

Conexpo-Con/Agg unveils new logo

36 SaMoTer Demo Days postponed

Bobcat launches new generation of telehandlers

38 New Doppstadt solution

'Panther' T14R rotating dumper

44 Control solutions for complete recycling plants

Mecalac launches 3.5MDX

48 Komatsu PC2000-11

Komatsu PC360LCi/ NLCi -11 excavators

50 Hilti wall and wire saws systems

54 One saw blade for all materials

Hilti receives EcoVadis gold sustainability rating

'Construction site 4.0' from Tyrolit



56 Doosan Infracore

Next generation battery power cutter

RecyclingAKTIV & TiefbauLIVE moves to 5 to 7 May 2022

Complete and effective floor maintenance system

61 The Xcentric 'XC5F' crusher

News from Siegenthaler Consulting GmbH

Hedwig Doppstadt passes away

69 Ausa returns to a major trade fair

Bobcat dealer supports child cancer patients

74 'Global Market Leader Champion 2021' award

Sila - Professional Dust Management

78 Blastrac's biggest scarifier

Allu helps transforms customer

recycling and sustainability

Klindex announces new corporate structure

Reports

17-18 Nado association and atmachinery stage ad-hoc conference at bauma ctt russia

20-25 Unique demolition project in Stockholm

Shows

70-72 Smaller in size, but bigger in hopes

77 DEMCON moves to 24 to 25 November 2022

Special Features

28-33 New dust suppression equipment

40-43 These saws truly rock!

62-67 The mini excavator market is booming!



1 control unit, 4 applications. Done.

Thanks to the TYROLIT Modular Technology System, individual system components can be used for a variety of applications. Maximum use and flexibility guaranteed. Find out more at **www.tyrolit.com**



Words from the IACDS President

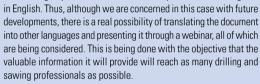
Sustainability and environment, our way

At IACDS we never stop looking to the future and, of course, listening and paying attention to the concerns of the present. This has seen us continually encountering two extremely important issues: sustainability and environment. This has resulted in the association launching a project that we are particularly excited and motivated about in our continuing journey together. A project closely related to the terms mentioned above.

What I am referring to is the slurry management working group which has been created by IACDS. The working group aims to collect existing information from different countries and manufacturers about solutions and best practices for slurry management in sawing and drilling activities. The scope of the group is to foster debate and the sharing of working guidelines, health & safety recommendations, specific regulations and restrictions to be taken into account for waste management.

The progress made by the working group, which kicks off this June, will result in a technical guide that will serve as a basic reference for slurry management and which, in principle, will be published at the beginning of next year. In addition, it is intended that the

work of this group will not be limited to the publication of the guide



For the time being, three meetings of the working group are planned during the current year, all of them in video conference format. If you are interested in the topic, and would like to know more about it, or participate in this new project, please contact us at: info@iacds.org.



Michael Findeis, President of IACDS





Hilti back to growth

In the first four months of 2021 the Hilti Group increased sales by 14.7%, to €1,755M. In local currencies, growth amounted to 16% compared to the same period of the previous year.

"The recovery trend in the global construction industry has continued and we have made a good start to the new fiscal year. It is pleasing to note that we have not only made gains compared with the low basis from 2020, but also achieved growth of around 6% in local currencies versus the first four months of 2019," said CEO Christoph Loos.

Compared with the first four months of the previous year, the Europe business region recorded a sales increase of 22% in local currencies. In addition to a solid growth rate in Northern and Central Europe, the dynamic recovery in the Mediterranean countries, in particular, contributed to this result. In the Americas, the 9.9% increase was broad based, highlighted by positive developments

in Canada and Brazil. Asia/Pacific posted a 13.6% increase in sales, despite the very serious ongoing Covid-19 situation in India. By contrast, growth in the Eastern Europe / Middle East / Africa region was only slightly positive (+5%) and still below pre crisis levels due to the unchanged problematic situation in the Middle East.

Currency developments in the first four months of 2021 were also pleasing. The weakening tendencies of the Swiss franc since the last quarter of 2020 have roughly aligned Group level business performance in local currencies with the picture in Swiss francs. Due to the strong base effects compared to the lockdown phase of the previous year, the current growth rate is not indicative of the months to come. For the full year, the Hilti Group continues to expect a sales growth in the high single digit range in local currencies.



Interamianto joins the European Demolition Association (EDA) as a new member

Created in 2006, Interamianto - Technical Society of Asbestos Removal Ltd - is the only company in its field working in the Portuguese market with EU certification. The company employs internationally certified technicians and a team of highly qualified professionals with extensive experience in friable and non-friable asbestos removal works in Portugal or abroad. Equipped with all the necessary equipment and properly certified for such work, Interamianto is able to perform any type of removal works in buildings, locomotives or ships, regardless of size.

The European Demolition Association, EDA, was founded in 1978 and is the European platform for national demolition associations, demolition contractors and suppliers. EDA organises annually activities for the demolition industry from all over Europe to get together. The most important being its annual convention, a meeting that includes technical parts with presentations about key topics and optional leisure activities. EDA also produces reports about the industry, to measure and analyse its evolution and developments.



Doosan sponsors team in Porsche Mobil 1 Supercup

Doosan will sponsor a team in four races in this year's Porsche Mobil 1 Supercup series. The Porsche Mobil 1 Supercup is one of the most renowned single brand trophy competitions on the international motoring scene. The team being sponsored by Doosan is the Emilian Dinamic Motorsport team, the only one in the competition with two Italian drivers. Doosan is sponsoring the team in the first two races, in Monte Carlo and Le

Castellet (France), on 23 May and 27 June 2021, respectively, and in the last two races in Zandvoort (Netherlands) on 5 September and the grand finale at the Monza national circuit in Italy on 12 September. The championship is organised by Porsche AG and to ensure that every driver has exactly the same chance of winning, all teams compete in the Porsche 911 GT3 Cup model that are all technically identical.



POWER TROWELS | GRINDERS | DUST EXTRACTORS | TOOLS



grinding, polishing and maintenance

IT'S EASY WITH LAVINA.

superabrasive.com

PDi business



IT'S NOT OVER UNTIL IT'S OVER

In addition to the internationally focused PDi Magazine, we also publish two Scandinavian and one American title. Thanks to this, we are continuously in contact with many suppliers and contractors from around the world, meaning that we are well placed to keep an eye on and report on the latest developments globally.

From this international interaction, the feedback I am receiving is that despite the continued strong pressure on the world due to the pandemic that there is a growing sense of optimism in many markets. The countries that carried out the so-called lockdowns early in the pandemic, have after reopening, managed to quickly reach the same levels, or even surpassed those from before the pandemic, producing market momentum once again. Other countries that did not carry out lockdowns, such as Sweden, have kept the wheels of commerce spinning at a decent level throughout, but have not experienced the same sharp upturn in activity when the market opened up after the spread of infection decreased. This applies to last summer, part of the autumn of 2020 and now during the late spring of 2021.

Despite these different scenarios resulting from different strategies, we can state now that it seems as if we are slowly but surely on our way out of the pandemic, with market activity increasing sharply in some regions. Many manufacturers testify to a sharp rise in order intake, which is due to the fact that many contractors have had a fair amount of work even during the tougher part of the pandemic. Now that restrictions are being lifted in many countries, projects that were put on hold at the beginning of the pandemic are being resumed and new projects are being launched. I believe that throughout the rest of 2021 we will see a steady increase that will probably culminate in the latter part of 2022.

Construction industry businesses and business people as a whole are, after all, marked by the pandemic. Our life patterns changed dramatically when the pandemic broke out and it will take time to mentally get back to what it was like before the pandemic hit us. Trade fair events and conferences are a good example of this. There will be some reluctance to attend these events at least in 2021. Those who still run their events will need to account for both a lower number of exhibitors and visitors. I believe that we must monitor these developments during the autumn, but that there will be no real setbacks.

If thing looks good, 2022 will be a good year as people and the market return to their industry events. I see it as very positive that the organiser of the leading industry tradeshow bauma, Messe München, chose to move the show dates from April to October, 2022. bauma has such a great influence on the global market that an event as early as April next year could have been fatal both for exhibitors and visitors as well as the organiser itself.

As the organisers of the DEMCON show in Stockholm, Sweden, we have moved the dates for the show four times and decided that there is no use trying to hold a tradeshow this year. Too many uncertainties remain and time is also too short for preparations. We have now decided to hold DEMCON 24 to 25 November 2022, barely a month after bauma in Munich.

In Sweden, the restrictions have been relaxed gradually, but for the foreseeable future until late summer, the restrictions will not allow a significant number of visitors to attend a tradeshow or to gather. At the time of writing, the Swedish government is planning to introduce new restrictions from 1 July. Then 300 people will be able to gather indoors if they are seated all the time. Outdoors, 600 people

> can gather without being seated. With that said, it feels a major step to allow maybe 600 to 800 people indoors without requiring them to sit.

> This is the situation in Sweden right now. I do not know exactly how regulations apply in other countries. We must remember that with pandemic legislation in different countries, the restrictions may change rapidly if the spread of infection increases again. It's not over until it's over.

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

Chinese President Xi visits LiuGona

Xi Jinping, President of the People's Republic of China, recently inspected the city of Liuzhou in South China's Guangxi Zhuang autonomous region and paid a visit to LiuGong. Here Xi learned about the reform and innovation of enterprises, and the development of the manufacturing industry and distinctive local businesses. During the visit, Xi stated that only innovation can help the equipment manufacturing industry become stronger, inspecting LiuGong's culture hall. R&D test centre and excavator assembly factory. He was also briefed on LiuGong's recent developments and held discussions with LiuGong's staff.

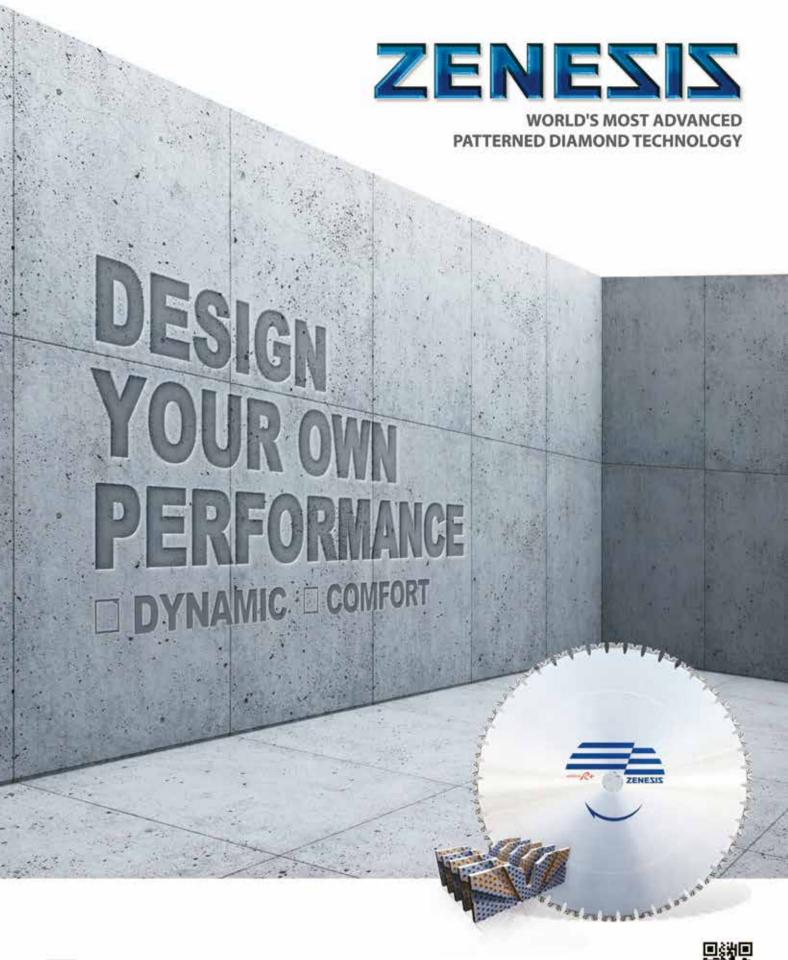
From building its first wheel loader Z435 in 1966 to the brand new 856E MAX electric wheel loader, LiuGong has placed emphasis on independent research and development. During the past 62 years, the company has been committed to technology innovation and followed the strategy of globalisation, providing intelligent solutions. At present. LiuGong has 13 categories of 32 product lines, among which the global sales of wheel loaders ranks first. With five global R&D bases, 13 overseas subsidiaries, 17 global regional parts centres and 20 manufacturing facilities, LiuGong delivers its products to over 170 counties with overseas sales revenue increasing in the past six years, now accounting for more than 30% of total



The Wacker Neuson Group has made a successful start to 2021 with revenue for the first quarter amounting to €434.0M, a rise of 5.6% relative to the previous year. Adjusted for currency effects, this corresponds to an increase of 7.4%. The company reported an even bigger rise in earnings with profit before interest and tax (EBIT) increasing 50.9% to €43.6M. The EBIT margin amounted to 10.0%, which is a rise of 300 basis points. "The first quarter got the year off to an exceptionally successful start for us. We are back on our growth path with a sharp rise in profitability too," explains Kurt Helletzgruber, CEO and CFO of the Wacker Neuson Group. "Our strong performance over these first three months gives us an excellent foundation for achieving our goals for the year. At the same time, demand for our products continues to develop dynamically."

Order intake developed dynamically in the first quarter and this trend continued into the start of the second quarter. However. significant uncertainties still overshadow the macroeconomic environment and global supply chains. "Supply chains are currently the largest area of concern for us. Demand from the market is high and topical issues such as pandemic related restrictions and the blockage of the Suez Canal are resulting in recurring bottlenecks. We have to be extremely flexible with production to ensure we don't miss out on any manufacturing slots," adds Helletzgruber. The situation is further compounded by price increases for raw materials, components and transport. Taking the current economic climate as well as the opportunities and risks facing the Wacker Neuson Group into account, the company foresees no change to its guidance for fiscal 2021.









Words from the EDA President

Let's talk about the circular economy

of the moment in construction and, of course, demolition, as we are becoming more and more aware of the importance of reusing materials and recycling what we have already used. We have a responsibility to the planet and to society, and

The European Demolition Association, EDA, is aware of the importance of to launch a reference publication. The lar economy' aims to provide an overview (demolition, decontamination and recycling) professionals. In other words, it is intended to be a reference document that, probably, and taking into account the subject on which it focuses, will become a living document over the years.

progress of the circular economy working group, created by the association itself The working group was formed by different professionals from the demolition, decontamination and recycling industries, and has enabled the participants to share knowledge and experiences, facilitating mutual growth and understanding.

Another example of the importance that EDA attaches to the issue of the circular economy can be found in the online training that we have developed

The circular economy is one of the topics and implemented. Recently, we held a webinar focused on the circular economy, in which the legislation and the current situation in Denmark with respect to this topic were presented. As expected considering the importance of this subject, it has been one of the most successful webinars held by the association, with the attendance of numerous industry professionals from all over Europe

It is time to talk about the circular

About EDA

info@europeandemolition.org www.europeandemolition.org



Francisco Cobo, President of EDA, **European Demolition Association**



PDi business



Terex announces new manufacturing facility in China

Terex Materials Processing (MP), a leading global manufacturer of materials processing equipment, is pleased to announce the purchase of a new facility located in Jiading District, Shanghai, China, to manufacture Powerscreen equipment for the domestic China market. Powerscreen itself is a leading provider of mobile crushing and screening equipment for quarrying, construction and other applications. The 18,000m2 facility will provide a solid foundation for Powerscreen to commence production in China, accelerating manufacturing plans by approximately two years.

Kieran Hegarty, president Terex Materials Processing said, "This investment by Terex to manufacture locally in China marks the next chapter in Powerscreen's growth story, demonstrates a long term commitment to the region and will enable us to be a formidable competitor in China. It will also deliver significant economic benefits to the local area, in terms of supporting key supply chain partners and providing skilled jobs. Additionally, this expansion will support our growth plans without impacting Powerscreen's production capacity at its other Terex facilities."

Powerscreen first entered China in 2016. as a response to government investment in infrastructure and legislation supporting the use of recycled materials. Since then, Powerscreen has continued to build a growing market presence through its China sales and service team. building its distribution network, attending industry exhibitions, and hosting customers through open days. A dedicated team from Northern Ireland will be onsite to oversee scale up of production in China and ensure processes are to the same robust standard of Powerscreen's manufacturing centre of excellence in Northern Ireland. Work is already underway with Powerscreen equipment onsite for the training of the China team. It is expected that the first locally produced machines will come off the line before the end of the year.

Kieran Hegarty concluded: "Mobile crushing and screening equipment plays a basic, yet vital, role in the sustainable building of infrastructure. This facility will accelerate our manufacturing plans for China and will enable us to assist commercial ventures in China with the right equipment, carrying the Powerscreen name, built by a local team and sold through an enhanced distribution network."

Christoph Burkhard named new CFO of Wacker Neuson SE

Christoph Burkhard has been appointed as the new CFO of Wacker Neuson SE with effect as of 1 June 2021. He follows on from Mag. Kurt Helletzgruber, who was seconded from the Supervisory Board to the Executive Board and is currently serving as CEO and CFO for an interim period. In his role as CFO of Wacker Neuson SE, Mr. Burkhard will be responsible for finance, controlling and risk management as well as auditing, IT and sales financing. Alongside Mr. Burkhard as the new CFO, Dr. Tragl will assume the role of CEO and chairman of the Executive Board on 1 June with Kurt Helletzgruber returning to his previous position.





MEET BROKK 900



Packed with demolition power, equipped with the heaviest Brokk hydraulic breaker and built to withstand demanding jobs, meet Brokk 900. All of this combined with reliable SmartPower™ makes the Brokk 900 the perfect solution for heavy demolition!







EVENTS

CONCRETE SHOW BRAZIL 2021

August 31 to September 2, 2021 São Paulo Expo, São Paul, Brazil www.concreteshow.com.br

DEMO EXPO/LET'S RECYCLE

September 15-16 Coventry, United Kingdom www.demoexpo2021.com

BEBOSA 2021

21-23 September, 2021 Willingen, Hochsauerland,

www.bebosa.com

THE ARA SHOW 2021

October 17-20, 2021 New Orleans, Louisiana

www.arashow.org

ECOMONDO 2021

26-29 oktober, 2021 Rimini, Italy

www.ecomondo.it

WORLD OF CONCRETE 2022

Jan 18-20, 2022 Las Vegas Convention Center Las Vegas, USA

www.worldofconcrete.com

NDA ANNUAL CONVENTION 2022

Demolition San Diego Feb 26 -Mar 1, 2022 San Diego, USA

www.demolitionassociation.com

FACHTAGUNG ABBRUCH 2022

March. 11, 2022 Berlin, Germany

www.deutscher-abbruchverband.de

HILLHEAD

21-23 June 2<u>022</u> Hillhead Quarry, Buxton, Derbyshire,

www.hillhead.com

BAUMA 2022

24-30 oktober, <u>2022</u> Messe München, München, Germany

www.bauma.de

BAUMA CONEXPO INDIA

Gurugram, New De<u>lhi.</u> India

www.bcindia.com

DEMCON 2022

November 24-25, 2022 InfraCity, Stockholm, Sweden

www.demcon.se



BLASTRAC IS RELEASING A NEW SMALL PLANETARY GRINDER

The Blastrac BMG-444 is the smallest planetary triple head grinder of the Blastrac range. It is very compact and can access limited areas. Featuring speed control or not, all the user need to do is to make a choise between two versions.

The machines are easy to manoeuvre and benefit from minimum vibrations and a low noise level. With the advantage of an adjustable steering handle that includes a storage place for a smartphone, it is easy to keep control of the machine. In addition, the BMG-444 can be folded for easy transportation onto small vehicles (the BMG-444 can also be easily dismantled in three parts).

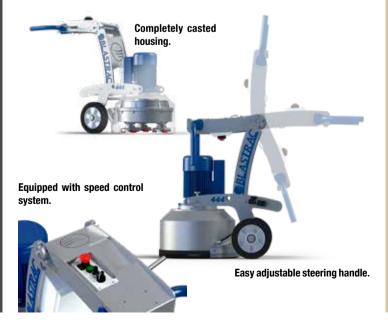
The planetary system of the BMG-444 is in a completely casted housing for 100% sealing of the lower belt against dust and water. It makes the machine very easy to clean without any risk.

In addition, they are equipped with a self-tensioning upper belt with long lifetime. This means there is no need to adjust the belt tension making it easier to maintain belts.

The floating shroud is made of one single piece allowing easy locking for changing tools and transportation. Like all other Blastrac triple disc grinders, the BMG-444 will be delivered as standard with Slidemag adapter plates that can be equipped with any type of Slidemag wings, including grinding wings, PCD wings, polishing and ceramic pads.

The new BMG-444 is equipped as standard with a local dust exhaust of Ø76 mm, a floating shroud and an extra nozzle for better suction performance. It also has a water hose connection with an easy adjustable ball valve flow control.

www.blastrac.com



Conexpo-Con/ Agg unveils new oao and brand identity

Conexpo-Con/Agg, the premier event that connects experts from every major construction sector, recently unveiled a new brand identity and tag line: "Taking Construction to the Next Level". The updated branding reflects the growth and momentum of the construction industry and the role the exhibition plays in connecting innovators, equipment manufactures and construction professionals. Held every three years in Las Vegas, Conexpo-Con/Agg is North America's largest construction trade show featuring the latest construction equipment and technology applications for the industry.

"The launch of a new identity for Conexpo-Con/Agg reflects how the show and our industry has evolved and what it aspires to be in the future," said Dana Wuesthoff, vice president exhibitions and event services at the Association of Equipment Manufacturers and Conexpo-Con/Agg show director. "The forward motion of the logo matches the forward motion of the show, where construction professionals experience the latest equipment, participate in demonstrations and education, make new professional connections, and grow their own marketability within the industry."

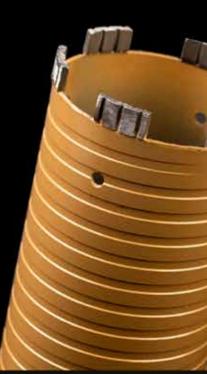
The forward pointing arrows indicate progress and momentum, while the deepening colours represent growth. The tread like arrangement of the arrows conveys traction and making a mark on the construction industry. This is the first complete overhaul of the Conexpo-Con/Agg identity since Con-Expo and Con-Agg combined in 1996. "It's been exciting to see the construction industry grow and evolve in so many ways since the shows combined and we launched our previous logo for Conexpo-Con/Agg in 2005," continued Wuesthoff. "The show's brand identity is evolving to match what Conexpo-Con/Agg is today and in the future. Conexpo-Con/Agg remains North America's number one event that construction pros consider to be the best place to connect with opportunities, equipment and products that advance their businesses, and this new brand image helps us translate that mission to the future of the industry."





















Scanmaskin Group appoints Per-Anders Bardh as new CEO

The Scanmaskin Group has announced that Per-Anders Bardh has been appointed new CEO of the company. Per-Anders is an experienced business leader with broad and relevant industrial experience. He has good technical competence and many years of international commercial experience in combination with a modern and well documented successful leadership style.

Per-Anders Bardh will succeed Paulo Bergstrand and assume responsibilities as of 1June 2021. Scanmaskin would like to take this opportunity to thank Paulo for his long, dedicated hard work on behalf of the company. Paulo, together with his father Clas-Göran Bergstrand, has led the Scanmaskin group since the 1970s to become one of the market leaders in the floor preparation business. "Paulo has been a very big part of Scanmaskin and Scanminerals successes and he will be greatly missed in the company. We look forward to carrying on and developing his legacy with Per-Anders," said Göte Mattsson, senior vice president Fluids & Mechanical Solutions Indutrade AB.

The Scanmaskin group was established in 1975 in Gothenburg, Sweden, and has over the years evolved to become one of the market leading manufacturers of grinding machines, minerals, and tools. The Scanmaskin and Scanmineral range includes everything from floor grinders, diamond tools, industrial vacuum cleaners, scarifiers, shot blasters, power trowels and floor strippers to minerals for seamless flooring. The head office and manufacturing are located in Lindome, south of Gothenburg, Sweden, and is known for innovative solutions and high class service and quality. The company also has other sales offices and warehouses located throughout Scandinavia, USA and Dubai, with products now sold all over the world, with representation in 33 countries through a network of distributors.

Brokk relocates Washington State US facility for increased service

Brokk, the leading manufacturer of remote controlled demolition machines, has relocated its Monroe, Washington headquarters, thereby consolidating service for customers in western North America. The move brings administration, sales, training, parts and service under a single roof for better customer response and a more streamlined operation. The new facility provides an additional 650m² to the company's former locations, creating more room for in house mechanical training for customers. The move also increases equipment and parts inventory for both Brokk demolition robots and hydrodemolition equipment from sister company Aquajet, providing greater availability and faster delivery throughout the region.

The new facility will function as the North American headquarters for Brokk and Aquajet and the main parts distribution centre for North America (the address is 17321 TYE Street SE, Suite B, Monroe, WA 98272). "Brokk has grown exponentially in North America over the years - expanding to include three facilities and a sales network that reaches every corner of the continent," said Lars Lindgren, president of Brokk Inc. "We're always looking for ways to better support our customers, such as continued training. The new facility gives us ample room to stock more inventory and offer more services to better serve our West Coast customers."

The added space at the new facility allows Brokk to increase in house training offerings for both robotic demolition and hydrodemolition equipment. Brokk has always offered onsite training with each machine commissioning and customised training thereafter being undertaken through facilities in Washington, Stanhope, New Jersey, and the Demonstration and Service Center in St. Joseph, Missouri. The new facility accommodates classroom space and a state of the art maintenance bay, similar to the amenities available at the Demonstration and Service Center. This opens up greater opportunities for personalised in depth mechanical training on in stock Brokk and Aquajet equipment from an experienced technician. With the relocation, West Coast customers will now have convenient access to courses tailored to their team and unique applications to increase safety, productivity and machine utilisation.

In addition to increased training options, the new facility increases inventory capacity for an array of standard and specialty parts for all Brokk models ranging from the compact .6t Brokk 70 to the heavy duty 11t 900 as well as older Brokk models. The facility also houses Aquajet hydrodemolition robots, parts and accessories. Additionally, bringing all departments together optimises logistics for faster parts processing. Most orders placed by 3.45 p.m. for in stock parts are available overnight to customers across the country, minimising unscheduled downtime.

Awards for Hilti innovations

Several new Hilti products received iF and Red Dot awards based on their design quality and degree of innovation. The 'Jaibot' construction site robot was named among the 'Best of the Best' and was chosen as 'BIM Champion' in Germany with the 'EXO-01' exoskeleton also receiving an innovation gold medal in Sweden. The product design awards are not the only sign of Hilti's innovative strength however.

The company once again ranks among the top 100 patent applicants in the current list of the European Patent Office. In 2020, Hilti filed 287 patent applications, once again ranking among the top technology companies. Last year, the Hilti Group launched 74 new products and services and continued to invest in strategic initiatives despite the Covid-19 pandemic and the resulting decline in sales.

McCloskey appoints new senior sales director

McCloskey International is pleased to announce the appointment of Dean Lownds as senior sales director, responsible for the EMEA and APAC regions. Lownds brings depth and breadth of experience in heavy equipment to the global market positioned for high growth.

Lownds joins the McCloskey International team with over 20 years invested in the heavy equipment industry with JCB, most recently as general manager, UK Dealer Sales. He has also spent time in Asia Pacific as well as the UAE developing business across the Middle East, and thus brings a unique understanding of the market and customer requirements to the position. His most recent roles have involved growth projects for Africa and supporting some of the largest independent equipment dealers across Europe.

"It's clear that the aggregates processing and recycling sectors present incredible growth opportunities for both independent dealers and customers during the coming years," said Lownds. "McCloskey International as a brand has a superb reputation around the world for its quality, responsiveness, and innovation. Combined with being a member of the Metso Outotec Group, this is a perfect time to realise the opportunity for all. I'm now part of a team that will take McCloskey and our partners to new heights, and the future is incredibly exciting."

In his new role, Lownds will continue the close working relationship McCloskey enjoys with its distribution partners, as well as identify and recruiting prospective dealers. "Dean's experience with the heavy equipment industry globally will allow him to easily integrate into and work with our dealer network to keep pace with the rising demand for McCloskey equipment," said John O'Neill, vice president Sales and Marketing McCloskey International. "We look forward to continuing and building this momentum alongside contributing in a meaningful way to the business success of our partners and customers." Dean Lownds will be based out of the United Kingdom with the appointment being effective immediately.







en shinhandia co kr



The same of the same of the

A MASTERPIECE BEYOND TECHNOLOGY



OPTIMIZED DIAMOND ARRAY WHERE WE WANT IT!

ARIX technology allows optimized diamond particle array for the fastest speed and longest life



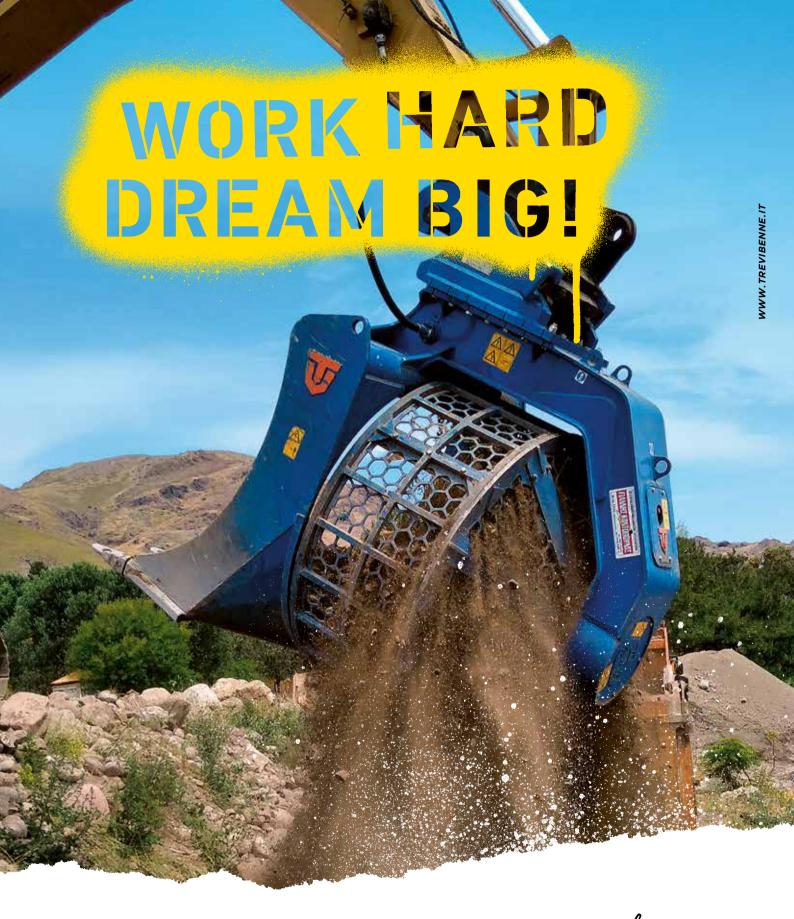
SHINHAN DIAMOND cs.en@shinhandia.co.kr

HEAD OFFICE [Republic Of Korea]

21635, (366: 10u, Namdong Induspark) 275 Namdongdong ro, Namdong-gu, Incheon, Republic of Korea 1: 482 1600 4804 LF 482 32 3414 GERMANY

Mengenthaleratic 79-81, 65760, Eschborn, Germany T. 449-5396-761-0777 | F. 449-5194-775-874 USA

SHINHAN DIAMOND AMERICA, INC., 990 S.Ajax Ave. City of Industry, CA 91748 U.S.A T. +1 626-363-9258 | F. +1-626-363-9259



SCREENIG BUCKET BVR SERIES.

Extremely versatile and compact attachment, designed for sorting and screening. The possibility of replacing the screening perimeter kit allows the separation of the treated material in the required size.





On 28 May, Russia's fledgling association of demolition companies NADO, and ATMachinery Ltd., a Moscow based supplier of construction and demolition equipment, organised an adhoc conference at bauma CTT Russia dedicated to the latest trends in demolition, recycling and concrete sawing. PDi's Andrei Bushmarin attended the event.

he conference, which was moderated by the association's secretary general Artem Kondratev, went on for some three hours, with the agenda ranging from industry regulatory issues to the newest demolition and recycling equipment and best practices. Artem Kondratev kicked off the meeting by outlining the association's current initiatives and activities as well as long term goals. He pointed out that the demolition industry in Russia is aiming to become the 'greenest' business sector by recycling as much waste and debris as possible that the industry generates. Alexei Krasnikov, general manager of ATMachinery and coorganiser of the conference, told the audience about the latest innovations in the sector of excavator attachments for demolition and recycling applications.

ATMachinery itself is a vibrant young company that specialises in supplying construction, demolition and recycling equipment to Russian end users. As far as demolition is concerned, ATMachinery is the official



Alexei Krasnikov, General Manager of ATMachinery.

distributor of Italmek and Okada attachments in Russia, and thanks to the company's educational and promotional activities over the past few years both brands have gained recognition with domestic contractors. In his presentation, Alexei detailed various aspects of using such attachments as crushers and shears for primary and secondary demolition tasks. ATMachinery was also one of the precious few companies that represented the demolition industry at bauma CTT Russia, with an Italmek 'iF40' crusher being a major highlight of the company's booth.

Irakli Sikharulidze, a product manager with OOO Stroitelnye Mashiny - the official dealer of Case Construction and Kocurek Excavators Ltd. in Russia - elaborated on the exciting subject of high reach demolition. He presented to the attendees a handful of recently completed case studies involving Case ex-

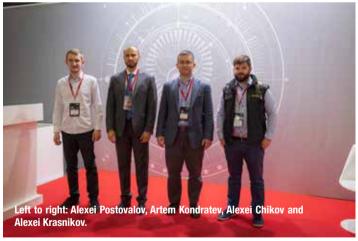
PDi reports











cavators modified by Kocurek engineers for high reach demolition tasks.

The concrete sawing and drilling industry was represented by Andrei Krianev, sales and marketing director of Estonia based manufacturer Kaskod-Mtronix OÜ. He explained the fundamentals of the company's proprietary 'ISRCdrive' high frequency motor technology, on which its core drilling systems 'Cuttronix CM-10S6, CM-10S3' are built. He further presented a host of job

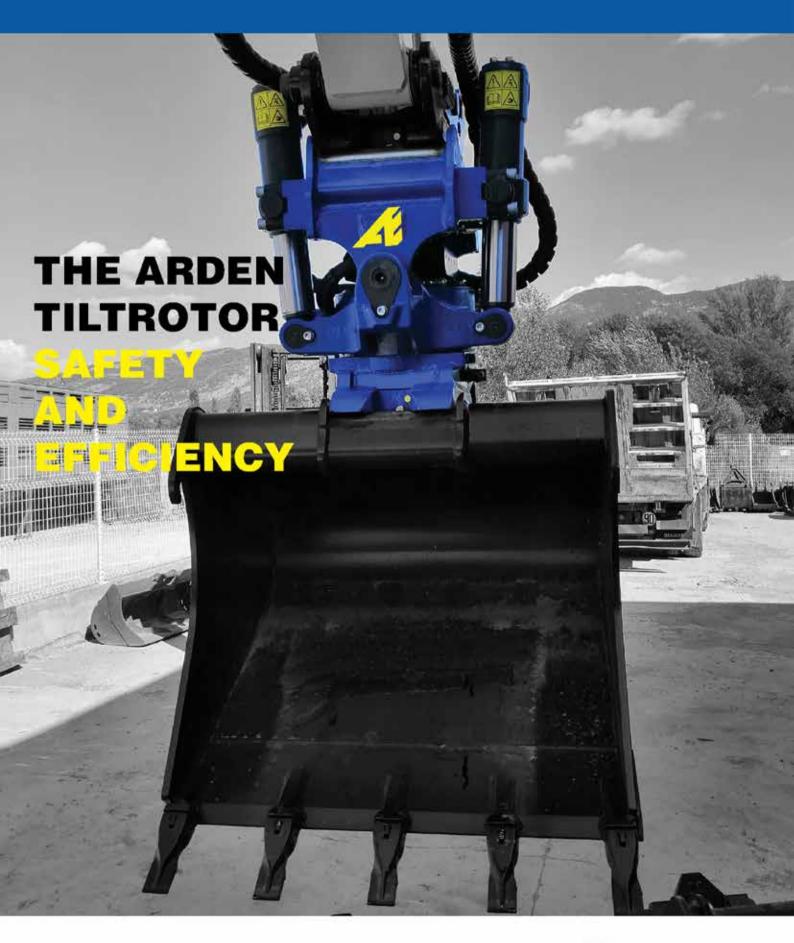
stories showcasing the capabilities of Cuttronix drilling systems on different work sites.

Presentations from Alexei Chikov, head of the department of the Organisation of Experimental Design and Construction GBU Mosstroyrazvitie, along with his counterpart from the University under the auspices of the Ministry of Construction, Alexei Postovalov, dealt with industry regulatory and personnel training issues.

Once the indoors part of the conference was com-

pleted, an excursion to a recycling site was arranged by representatives of concrete sawing and drilling specialist Rezburmash where the participants could witness firsthand the process of debris recycling into reusable rubble. The outing involved a lot of informal networking, with attendees sharing their experiences and discussing unusual projects that they have come across in their careers.

https://demolition-nado.ru http://atmachinery.ru









Back in 2017, a fire broke out in the cultural-historical building Vildmannen 7 in Stockholm, Sweden. The building is now being reconstructed and the company Destroy are responsible for the demolishing. PDi Magazine has met their production manager Niclas Gustavsson.

he Vildmannen 7 ("The Wild Man 7") building was constructed between the years of 1895 and 1897, based on drawings by Erik Josepson, a well-known architect who designed the Handelsbanken headquarters in Stockholm. The building is located in the intersection of Biblioteksgatan and Jakobsbergsgatan, and is known for its unique façade embellished with flowers and animals, as well as for its construction material Roslagen sandstone, which was also used when building the Royal Palace in Stockholm. The Stockholm City Museum have given Vildmannen 7 a so-called blue marking, the highest category for cultural-historical buildings in Stockholm.

In 2017, the property was damaged in a great fire, which destroyed the interior of the building. Fortunately, it was possible to save the 120-year-old stone façade, and the property owner Hufvudstaden will now rebuild the interior of the building. Before construction can begin, the remains of the burnt interior needs to be transported and demolished. For this job, they have hired the demolition contractor Destroy, based in Skogås south of Stockholm City.

Destroy was founded in 1995 and have a staff of 53 people and a revenue of approximately 80M SEK (approximately €7,9M). They have experience in working with larger projects such as the demolishing of the Nattugglan block on Södermalm and demolishing/ concrete cutting of the Nöten block in Solna, which went on for two years. They are mainly working in the

Stockholm area, but occasionally carry out work in the cities of Uppsala and Västerås. Destroy have had over 6000 commissions and over 700 customers, one of them being Hufvudstaden with this unique project.

A project out of the ordinary

"It is a very unusual job, it is the first time I've ever done anything like this", says Destroy's production manager Niclas Gustavsson when we meet him on the worksite. At this point, Destroy have already demolished the entire interior, with the façade being the only thing remaining, standing like a high wall around us. Interestingly enough, preserving the façade of a demolished building is not the only unique aspect of this project.

On the worksite we meet a scuba diver on his way down to the ground water. The basement floor of the







Discover the benefits of Hydrodemolition



Our Hydrodemolition robot, the AGUA CUTTER®, is 25x faster and 3x quieter than handheld equipment while providing a 2,5x better bonding surface. The robot is easily stored inside our high-pressure pump, the ECOSILENCE®, that handles up to 3000 bar and features auto start/stop technology for greater fuel efficiency. The Ecosilence is compact, easy to transport and super silent.

Effectively and efficiently manage blast water with Aquajet's **ECOCLEAR®** water treatment system. The system is fully automated and capable of handling a flow rate up to 20 m3/hour. It reduces pH to 6-9 and turbidity to 20-40 mg particles/liter, making it possible to release or recirculate treated blast water.

When space is tight and a robot won't fit, our **ERGO** system is the answer. Designed for Hydrodemolition operations in confined areas, the Ergo completely replaces hand lance work on floors, walls or ceilings.

Finally, AGUAJET ONLINE is a cloud-based system for managing your equipment. With equipment tracking, real-time diagnostics, data collection and analytics, it makes critical data about your machine available at the touch of a button on your smartphone or computer.

Contact Aquajet today to learn how our cutting-edge technology can solve your jobsite challenges.



PDi reports

















new building that will be constructed will have a higher ceiling height than the previous building. To do this, a new concrete foundation has to be cast an additional 1,5 meter down the ground, below the ground water. The casting process is carried out using the same technique as with the casting of bridge abutments and will be carried out until the summer of 2021. "It is very important that the ground water remains unchanged, otherwise the whole wall can fall."

The underwater casting is carried out by a specialized underwater contractor. Not too far away from the

scuba diver, Destroy's workers are demolishing the old, remaining concrete foundation. The concrete foundation is removed with the help of diamond tools from Swedish manufacturer Drome.

Demolition in several steps

Destroy's working process can be divided into five parts: clearing, demolishing, heavy-duty demolishing, basement demolishing and work with the concrete foundation. In the initial phase, it was important to empty the area of material that has been damaged by

the fire. Jack posts and rubbish chutes made it possible to securely transport all of the debris. The next step was advanced demolishing work which had to be carried out in several steps. For example, the floor structures were connected to the façade, which means that they had to be removed carefully without damaging the parts that were to be preserved.

"When we'd cleared the interior it was time to start reinforcing the façade", says Gustavsson. The façade was reinforced with a new foundation where piles were drilled through the existing dry stone and down to solid



Concrete | Wood | Rock | Fibreglass | Steel

Faster and safer than road saws, wall saws & handheld tools.

Saves you time and money with Low setup time
Low vibration
High productivity



Australia: +612 9980 7779 Europe: +420 604 381 910 www.echidna.com.au sales@echidna.com.au











rock. Other stages included sawing of a slot as well as replacement of trusses which had been put up to carry the façade right after the fire.

In total, 15 people have participated in the demolishing work which has included a combination of mechanical demolishing and demolishing with reciprocating saws. They have used the demolition robots Brokk 100 and Brokk 160, excavator 14t Doosan, as well as reciprocating saws and other equipment from

Hilti. As with all larger demolishing jobs, there are large portions of demolition debris which has to be removed. "We have carried out 1031 discharges of construction materials, each container holding 10t. It has mainly been bricks and beams damaged by fire. Apart from that, we have sent mixed demolition remains such as metal, asbestos, "blåbetong" [a type of autoclaved aerated concrete] and granite rock and boulders to the landfill."

The demolishing of the internal parts commenced on September 2 in 2019 and was completed in September 2020. When the foundation work is done, the workers begin the process of constructing a concrete frame cast on location, so that the new internal parts can begin to take shape. The new Vildmannen 7, complete with four floors and basement, is expected to be completed in early 2023, with room for shops, restaurants, offices and residences.

Kings Heath Demolition adds

Doosan mini and crawler excavators

Kings Heath Demolition Ltd based in Redditch in Worcestershire in the UK, has purchased new Doosan mini and crawler excavators from Stourport on Severn based Murley Construction, the local Doosan dealer. In the latest batch of new Doosan machines, Kings Heath Demolition has taken delivery of the company's first three mini excavators comprising of the Doosan DX17Z, DX27Z and DX63-3 models. The order also includes three of the larger Doosan DX225LC-5 22.1t crawler excavators, adding to Kings Heath Demolition's existing DX140LC-5 and DX225LC-5 units.

Tony Nicholls, senior contracts manager at Kings Heath Demolition, said: "With the new Doosan DX17Z, DX27Z and DX63-3, we are adding mini excavators to our fleet for the first time. These machines meet the increasing demand in the market for indoor demolition and refurbishment work, involving work in confined spaces and basements. We are beginning to see an uptick in this type of project including the conversion of existing multi storey office buildings into new apartments in urban locations and the new Doosan mini excavators are perfect for this type of work."

The first new Doosan crawler excavator purchased by Kings Heath Demolition was a DX140LC-5 14.4t model. This machine and the DX225LC-5 models subsequently added have so impressed the company's drivers that Kings Heath Demolition switched brands and has only purchased Doosan in the last three to four years. Tony Nicholls added: "When you add how much



our drivers like the Doosan machines to the impeccable service offered by Murley Construction, it has been a simple decision to keep adding more Doosan excavators. We work throughout Great Britain, undertaking contracts in England, Scotland and Wales, so reliable and high performing equipment is essential for our work, supported by the best aftermarket back up on the market."

A proud 70 year legacy in the demolition industry

Founded in 1952 by Jim Ferran, together with his brothers and his father, Kings Heath Demolition Ltd has been a leading demolition specialist not only in Birmingham, but all round the country. Jim noted that work in the early days was mostly carried out by hand and that Kings Heath Demolition has always been dedicated to the recycling side of the industry. In fact, the company had three yards to store and sort all the demolition debris the construction industry.

Following a hiatus from the industry, Kings Heath Demolition came back to life again in 2016 when John Smith, one of Jim's former employees, approached him with the idea of restarting the business. Jim was more than happy with this, being excited to see the company pick up where it had left off. Kings Heath Demolition is now owned and run by John Smith and Jim's son, Paul Ferran, with the support of Tony Nicholls as senior contracts manager. The company offers a wide range of demolition services including soft strip works; asbestos surveys and removal; onsite crushing and high rise demolition.

Also established in the 1950s, Murley Construction has been providing machinery sales and support for over 60 years in the Midlands. Murley Construction supplies the full range of equipment from Doosan that also includes wheeled excavators, wheel loaders, articulated dump trucks and attachments, providing full servicing, repairs, warranty and parts back up from the company's modern and well equipped premises with Doosan trained technicians and advisors.



Belgian company focuses on small equipment

Inverma is a young and dynamic company based in Wevelgem in the Belgian province of Westflandern, near Kortrijk. The company was founded with the goal of providing its customers with a rental service of small equipment at affordable prices and the best service quality. "I founded Inverma because from time to time I found myself having to rent a machine extra to the one I had so that we could finish the work. Later I decided to buy some machines and rent them when I was not using them," said Nicolas Maes.

Inverma now offers a wide assortment of machines for rent. "For some time now, we have been offering the Arjes Impaktor 250 evo in our rent repertoire and I must say I am very satisfied, even when we had a few minor setbacks at the beginning, nevertheless, the compact shredder runs excellently; it is a very versatile machine with great application potential," said Nicolas Maes.

Together with his father, Nicolas is also active in earthworks, road construction and civil engineering with the company Grondwerken Maes and uses the Arjes

shredder primarily for crushing concrete. In the rental business, however, the machine is used for different types of materials such as concrete, bricks, waste, glass, sandwich panels, green waste or cardboard. "We crush a lot of reinforced concrete, consequently we would rent an impact crusher from a Canadian manufacturer, but with we always had problems with the iron. Now, with our Arjes Impaktor 250 evo we don't have this problem anymore," stated Nicolas who discovered Arjes when searching for videos of a different crusher. When he found on YouTube videos from Arjes he decided that this was the machine he actually required.

Through Naessens Hydraulics, the Belgian Arjes' trading partner, Nicolas was informed in detail about the advantages of the compact, double shaft, mobile shredder and immediately signed the sales contract. "I bought the machine about a year ago and it has already run (up) 850h. If the successful rental of this machine continues, we are convinced that we will buy one machine more next year," says Nicolas Maes confidently.





TRANSFORMING YOUR WASTE.





ALLU CRUSHER & ALLU TRANSFORMER FOR DEMOLITION WASTE.

Screen and separate fine materials from the demolition waste with ALLU Transformer screening bucket, and crush hard materials with ALLU Crusher.

Transform all your demolition waste; bricks, asphalt, wood etc. into recycable form. Less material to be transported to the landfill, more efficient utilization of waste materials!

ALLU TRANSFORMER – faster processes with 'one step operation' in screening, separating and loading.

ALLU CRUSHER – reliable crusher with no jamming, and quick adjustment to the required output specification.





Companies such as BossTek, Dehaco and OZmist, to name but a few, have all introduced new products within the field of dust suppression. Read about them here in this special feature on dust suppression equipment.

'Tera' dust control units from Dehaco

Dehaco's rotor technology is a method conceived specifically for dust control. Suitable for demolition, waste management and fire control, to name but a few applications, Dehaco believes the technology overcomes two drawbacks that previous solutions have been hampered by. Firstly, objects that are the size of a pen tip (0.5mm) are large enough to block a nozzle, and when equipment has to stop work because the nozzles are blocked, large costs are incurred and deadlines can be missed. With Dehaco's dust control unit Tera, the smallest opening is 3mm. Any contaminants in the water are expelled from the rotor. Furthermore, Dehaco's '400V' series of machines can distribute droplets regardless of whether the user has a 100, 500, 1,000 or 4,500l/h water supply. Since the water supply is not a defining factor in the performance, the droplet size can be adjusted with the turn of a switch, and as the spinning rotor literally slices the water into droplets, it works using the mains water pressure. What's more, the Tera dust control units can be equipped with UVC lamps to help mitigate Legionnaires disease which is spread through airborne water droplets, exactly the delivery method Dehaco uses to prevent dust from spreading. Dehaco's believes its solution using UVC lamps destroys the bacteria before it reaches the rotor. A unique feature of this setup is that the strength and quality of the UVC light is monitored and a visual indication is given of its performance. Dehaco manufactures a complete series of dust control solutions, from a range of 5m for strip-outs and renovations, all the way up to 90m for expansive sites and high reach demolition.

www.dehaco.nl



Dynaset's new HPW hydraulic high pressure water pump model 'HPW 160-18/18' is specially designed to power up its HPW-Dust high pressure dust suppression systems, and can also be used as a power washer. It is the smallest model of the HPW line up in power output and in dimensions. The main improvement in the latest variant is the brand new piston model, with a simpler structure of the pump. The new model is designed for dust control applications and can be used, for example, for street sweeper dust control and for dust suppression of small pulverisers and drilling rigs. In the case of demolition machines, the Dynaset HPW-Dust's nozzles are installed either at the end of the excavator's boom or directly on the demolition tool. That way, the atomized water mist is targeted where the dust is emitted, and the particles are trapped under a cover right after they are created. The compact dimensions have also been highlighted as an important feature.

JPT Jaskari, which manufactures pieces of equipment for the Finnish brand Serco, incorporates dust suppression systems into brush attachments, with the HPW 160 being one of the models used in Serco's products. "In our brush buckets, there is a small compartment for the pump and the pump fits there perfectly," says Juha-Pekka Jaskari, owner of JPT Jaskari. "The markings of the pump are very simple, and all the connections are super handy to do. Simplicity is always good and also users appreciate this because often it means reliability."

www.dynaset.com





BLASTRAC



BLASTRAC, THE EXPERTS IN SURFACE PREPARATION

NO MATTER WHAT KIND OF FLOOR FINISH YOU WANT TO ACHIEVE, WE HAVE THE SURFACE PREPARATION SOLUTION FOR YOU!





GRINDING FOR GRINDING AND POLISHING OF CONCRETE AND OTHER SURFACES





SHOT BLASTING TO PREPARE AND RETEXTURE CONCRETE





SCARIFIERS TO LEVEL OR REMOVE THICK COATINGS

CONCRETE SURFACE PROFILES

PREPARATION METHOD CSP-1 CSP-2 CSP-3 CSP-4 CSP-5 CSP-6 CSP-7 CSP-8 CSP-9 CSP-10

GRINDING

SHOT BLASTING

SCARIFYING







PDi special feature







'Special Duty Line' from WLP

WLP's Special Duty Line includes the 'WLP 700 Fog For Dust, FFD', which has been created in cooperation with Ravasini. FFD is a sanitising 'fogger' machine formed by a tank for industrial water transportation and a WLP 700 spray cannon which together generates micro droplets (which can also be mixed with disinfectant), with the average throw distance being approximately 70m. Another product within the Special Duty Line is the 'D50 Tank'. The system consists of three main parts: a WLP 'Demolitor 50' placed on a frame that includes a 5,000l tank and a generator that, according to WLP, guarantees complete autonomy in all conditions. These constituents are then assembled on a road suitable certificated trolley. In view of the ongoing sanitary emergency, WLP has also used its know how to design and produce sanitation machines. This has led to the creation of the 'Sanitank 300', equipped with a 300l tank, which is WLP says is characterised by high efficiency and smooth functioning at 4.5kW. The Special Duty Line can be installed on hydraulic arms through special supports mounted on columns or walls. The mounted generator and cannon barrel can be configured in complete autonomy.

www.wlpdust.com

BossTek presents new compact dust suppression design

The 'DustBoss Atom' from BossTek features a fan less, self-contained design that incorporates remote control and

'4G LTE' telematics technologies as standard equipment to deliver a combination of suppression and monitoring. The compact, diesel powered unit fits in the back of a pickup truck, so it can be positioned and relocated to address dust generating activity directly at source. It also has fork lift pockets on the front and back. The unit features a Kohler KD440 power plant, a 6.78kW (approx.) air cooled engine that meets Tier IV Final emissions standards and complies with California CARB requirements. The air filtration system increases performance and lengthens service intervals, even in dusty environments, according to BossTek. Its integrated fuel injection system and overhead cam design are coupled with a cast iron cylinder liner. The engine and pump subassembly is secured by four isolation mounts that minimise vibration transfer to the frame. The high impact stainless steel nozzle features a quick disconnect for easy replacement, and has built in communications features. The system is fitted with a Cat Pumps '56G1' water pump that requires 0.344bar minimum inlet pressure, connected by a 25.4mm 'cam-and-groove' fitting. The unit has specially formulated seals and high density polished ceramic plungers. It also includes protection against pressure drops; when a low pressure situation is detected, the unit shuts down to prevent damage to the pump or overheating of the engine. With a throw of 30m, the adjustable elevation angle and user defined oscillation allow precise aiming of a dust capturing mist. The mist comprises of millions of droplets p/min in the range of 50-200 microns.

www.bosstek.com

EmiControls releases new trailer for 'V12s' and more

EmiControls new trailer, which has road approval, enables its V12s turbine to be easily transported from one location to another. The trailer hitch has an articulated joint and can therefore be used for any type of car or means of transport, with four stabilisers providing what the company says is a 'good and safe stand', even on uneven terrain. EmiControls also states that thanks to the use of resistant materials for turbine and trailer, a long lifespan is guaranteed, and if required, the V12s dust controller can be mounted and dismounted from the trailer. Thanks to its low noise emission, the V12s can be used in city centres and populated areas. The turbine has two speed levels, which makes it possible to spray the fine water mist at ranges of 25m to over 65m. A manual version of the dust controller, the 'V12s Basic', is newly available, modelled on the V12s but with manual swing and height adjustment. EmiControls also released a new stationary dust suppression system, the 'H2 Pump'. It has been specially developed for use in smaller plants. The special feature of the H2 Pump is that the fogging technology ensures efficient dust control while requiring little water. In addition, its small size allows it to be installed directly at the dust source. Optional extras such as automatic draining, heating and line cleaning are also available.

www.emicontrols.com

COMMITTED TO FLOOR GRINDING AND POLISHING TECHNOLOGY

www.ashinediamondtools.com



With a strong R&D team, consistent quality, and professional customer support, Ashine enhances customer advantages in market competition to strengthen long-term collaborative partnership.





Maschinenfabrik OTTO BAIER GmbH - Heckenwiesen 26 - 71679 Asperg - Germany Tel. +49-7141-30 32-0 - info@baier-tools.com

www.baier-tools.com



TOPTEC Spezialmaschinen GmbH REMOTE CONTROLLED DEMOLITION ROBOTS

Breithornstraße 10 · D-81825 München

E-mail: info@toptec-germany.de Tel.: +49(0)89-42720550



www.toptec-germany.de

PDi special feature





Terex launches dust suppression system

Terex, better known as a global manufacturer of lifting and materials processing solutions, has introduced 'Aquamist' by Terex, a dust suppression system that is now available across its materials processing brands, EvoQuip, Fuchs, Powerscreen, Terex Ecotec, Terex Finlay, Terex MPS and Terex Washing Systems. According to Terex, Aquamist offers an improvement over conventional jets or water sprays to manage the build-up of dust and better protect workers on jobsites by using a high capacity misting fan that produces finely divided water droplets in the size range 10-150microns. Terex believes at this size they easily combine themselves with dust particles of similar dimensions and precipitate them out of the air and, because water mists 'float' more than a conventional spray, they cover and envelop the dust cloud more effectively. "It is globally accepted now that airborne dust that is formed on jobsites can significantly contribute to respiratory illnesses," says Paul Kearney, vice president of Parts and Solutions, Terex Materials Processing. "As increased legislation comes into place globally to mitigate this, more effective control of dust is needed. Our Aquamist system will better support worksite operations and strengthen our commitment to making the workplace a safe and healthy environment."

www.terex.com

New mist cannon from OZmist

A few years ago, Australian manufacturer OZmist released the 'T45', a self-contained trailer mounted

mist cannon for combatting fugitive dust hazards on the worksite. The cannon was fitted on top of a 2,000l water tank with heavy duty off road tyres, and was the first iteration of OZmist's 'Ultra Heavy-Duty Dust Suppression' range. In 2020, OZmist refined and modified the T45 and gave it a new name. OZmist took the core design and produced the 'M45AU', a mist cannon that, according to OZmist, holds the same values as the T45AU but has been removed from the trailer and given a slightly smaller water tank. The water tank is fitted with fork lift type mounts on the front and the back, meaning that the machine can be picked up and moved via a fork lift or crane. Key features include a 45m throw from the 5.5kW fan motor; oscillation from left to right up to 340°; an electric actuator that lifts the fan outlet over 45°; a Makinex/Honda 16kVA petrol generator, which the manufacturer says provides one tank of fuel for 8h of operation time, with three phase and 12V contained in a water proof and dust proof enclosure fitted to the rear of the tank. Its remote control has a 100m range whilst there is a 1,200l capacity water tank. It is also fitted with internal baffle plates for reducing sway make transporting a full unit simple. It also has a 76.2mm cam lock inlet and 50.8mm drain outlet. Internal power cabling is from front to back whilst its OZmist 18l/pm three phase industrial mist pump pressurises the tank water to 68.94bar, and is fitted to slide rails behind a hinged door below the fan. The dry weight of the unit is 600kg.

OZmist is also currently working on a new cannon variant, the 'S45AU'. This will not feature an integrated

water tank and is designed to be installed on the rear of water trucks or positioned on a worksite with a dedicated water source. The new cannon has a Makinex/Honda petrol generator installed (optional). The unit is nearing the final stages of production and will be released in the summer of 2021.

www.ozmist.com.au

New water meter in B + W water fog systems

B + W is now installing a water meter in all of its water fog systems, enabling the water which is about to be sprayed to be flow monitored. The company says that the key advantage being that leaks in the system are now able to be detected the same way as blocked nozzles are. The consumption of nozzles is monitored by the water meter; thus if leaks occur, the increased water consumption is recorded and the system goes into malfunction thereby conserving water resources. Furthermore, not only is the maximum flow monitored, but also the minimum, which according to B + W, is important for noticing clogged nozzles. If these do not generate a fine water mist, the de-dusting performance is no longer guaranteed. Here, the water meter takes effect again, as if the water throughput falls below the minimum, there is a signal. The company has designed its water nozzles to be low maintenance, being easily cleaned quickly, with the screwed on filter being designed to be loosened with a screwdriver and cleaned under running water.

www.buwip.de







Based in southern Germany, demolition company Max Wild is involved in the demolition of the old Saar Bridge at the Saarlouis autobahn. The plan for demolishing the bridge consisted of breaking it down into sections that could be placed on pontoons and floated to a crushing facility on the riverbank. In order to disconnect the lateral cantilever arms and the concrete slab between the two hollow boxes, the company used one of their 40t excavators with a Kemroc cutter wheel attachment.

Demolition of the old bridge started after the four lanes of the new replacement bridge were completely opened in November 2020. The client, the western subsidiary of Autobahn GmbH, awarded the contract for the overall project to the consortium Schnorpfeil / SEH. The consortium sub contracted the difficult demolition work of the old concrete bridge to demolition specialists, Max Wild GmbH which is headquartered in Berkheim in Upper Swabia, operating from several locations all over southern Germany.

The company has a comprehensive fleet of modern machinery and has extensive experience in the demolition of buildings, industrial complexes and bridges. However, even for such a large company, demolition projects like the Saar Bridge do not come along every day. Naturally, motorway bridges spanning large rivers cannot be demolished from the ground. The first stage in the detailed plan for the demolition process involved lightening the hollow box section concrete beams spanning the bridge in both directions by removing all structurally non-essential items from the bridge deck. Once this was complete, the main structural components of the bridge could be lowered onto floating pontoons that would transport them to a crushing facility on the riverbank.

Cutting prestressed concrete

Structurally non-essential items on the bridge were removed following discussions with Kemroc's application consultant, Marco Schön, using a DMW 220/1000/130 cutter wheel excavator attachment. This has 220kW rated power, with a cutting depth of between 500mm to 1,000mm and a cutting width of 130mm, and was mounted on one of the company's 40t excavators. Mounted on the arms of hydraulic excavators, the DMW range of cutter wheel attachments are designed for tough applications. Equipped with two lateral hydraulic motors, they develop extremely high cutting forces which produce high production levels. They

can even be used to cut through rock with a uniaxial compressive strength of 120MPa or through heavily reinforced concrete.

The attachment encountered heavy resistance on the bridge panel which crossed the Saar River, before two pontoons with a special framework had been located under the bridge panel in order to support the two hollow box elements and float them out later. In order to reduce the weight of the span being carried by the pontoons, the cantilever arms on both were removed as well as the concrete slab located between the two hollow box sections. Under normal circumstances, Max Wild specialists would have cut these structures into sections using a concrete saw, but due to the extremely angled nature of the whole construction the saw would have had to be reset numerous times. In addition, cutting depths as much as 650mm would have been necessary. This led to Max Fus, the site manager, and his team, deciding to make only the longitudinal cuts along the bridge axis with a concrete saw and use the Kemroc cutter wheel for the crosscuts. The concrete was cut into segments, each weighing between 6t and 10t. Each segment was lifted out with a crane and transported to a crushing plant on the riverbank.

The cutter wheel was used in weeks 6 and 7 of 2021. Work was protected by scaffolding suspended over the Saar River. The cutter wheel achieved a surprisingly fast cutting rate according to Max Fus. "The bridge was tensioned in a transverse direction and it was therefore structurally difficult to cut through. Nevertheless, I was surprised that the cutter wheel did not appear to perform differently when it was cutting through prestressed or non-stressed concrete. Working with a combination of diamond saw technology and the cutter wheel, we made relatively quick progress and achieved cutting speeds of around ten linear meters per hour. Even with the relatively high rate of wear on the tungsten carbide tipped consumables, this method has been proven to be the most economical solution due to the high production rates."



Produce your building material, using your heavy equipment, wherever the job site is located. This is the easiest solution for many companies now that procurement is becoming more complex, expensive and takes longer. It is also the most practical solution when construction sites are located in areas where heavy vehicles find access problematic. For example, in Bulgaria, a company had to demolish a house with limited space. It installed an MB-L160 crusher bucket on a Case backhoe loader, making it quick and easy to load the debris, crush it on site, and obtain quality material that could be reused.

This logic also applies to companies working on large or small urban redevelopment sites, or those often involved in road works, bridge demolitions, road construction or quarries. Material can be reused to create internal roads, fill holes, and reduce management costs by half. With MB Crusher's equipment, companies are able to set up an actual recycling centre onsite. This provides them with independence from other suppliers, reduced processing times, elimination of transportation costs and provides ready to use quality material.

In Nimes, France, a company constructing 745 housing units needed to redevelop an old farm road for inter district service and excavate and create a drainage network for rainwater. In this context, where there was a need to excavate and produce a large amount of inert waste, the company chose MB Crusher's equipment for recycling all of the material. The MB-S18 screening bucket was used to process fine materials, while the BF80.3 crusher bucket processed the larger rocks. The aggregates obtained were reused immediately by laying them over the drainage network trench, avoiding all logistical and material disposal fees and material purchasing fees. Thierry Bastide, manager of Société Travaux Publics Bastide, the company in charge of the contract, said, "The advantage is that you put back the materials that you have extracted."

The advantages don't stop at reducing transportation fees and the cost of treating or disposing of waste, but extend to material quality. A recent example is when the Santo Spirito bridge in Puglia, Italy, was damaged by a landslide and needed to be demolished. The contracting company used MB's crusher and screening bucket to crush and reduce the material obtained down to the desired output size. The acquired material comfortably met and exceeded the standards for its reuse to create the road substrate that is needed to reconstruct the bridge.

SaMoTer Demo Days postponed

Veronafiere has decided to postpone the debut of SaMoTer Demo Days, the scheduled live event that was to be held in a quarry from 30 September to 2 October 2021 in Vaprio d'Adda (province of Milan). The decision was shared with trade associations which and companies which had expressed great interest from the outset in the launch of this new demonstration event focusing on construction machinery.

The decision to postpone the event was based on an unforeseen and still rapidly evolving situation. Following the sprint start in the first quarter of the year, with +40% reported in sales of construction equipment in Italy (source: Unacea), equipment manufacturers from all over the world are now finding it difficult to cope with demand. The cause arises from a combination of three factors on a global scale: increased costs of raw materials, difficulties in finding mechanical components and delays in shipments.

We are seeing significant growth in the market, but in a very complex context characterised by changeable and uncertain dynamics. Under these circumstances, we take a positive view of Veronafiere's approach in not forcing the market and proceeding in close harmony with the sector," said Mirco Risi, president of Unacea, the Italian construction equipment association. "We note with regret that the variable background conditions make it impossible to hold an event which we had immediately supported," said Claudio Bassanetti, president of Anepla, the Italian Association of stone quarries and producers belonging to Confindustria. "However, we are always more than willing to collaborate again in the future with Veronafiere."

"An unforeseeable scenario obliged the construction machinery sector to implement a sudden change of direction," commented Giovanni Mantovani, CEO of Veronafiere. "This is why we considered postponing (SaMoTer) Demo Days. Organising trade fairs tailored to the needs of partners requires flexibility and rapid adaptation in order always to provide the best business and promotion tools on the market. We will now work with even more effort on the next edition of SaMoTer by recalibrating a new approach during the run up to the exhibition."

Veronafiere in 2023 will host the 31st edition of SaMoTer, the most important exhibition in Italy dedicated to the construction equipment. The first stage in the roadmap during the run up will be SaMoTer Day, which will provide training and professional updating for companies and operators which will replace the event which was scheduled for the autumn of 2021.

Bobcat launches new generation of telehandlers

Bobcat is launching the new generation 'R-Series' telehandler range of 12 models with Stage V engines. The new telehandlers cover lifting heights from 6m to 18m with maximum lifting capacities between 2.6t and 4.1t. This is the latest phase in Bobcat's 'Next is Now' programme, combining innovative product development and diversification with more intelligent, user friendly technologies and services that reshape how work gets done.

The new R-Series range of telehandlers comprises of compact telescopic loaders - TL26.60, TL30.60 and TL30.70; middle range telehandlers - TL35.70, T35.105, T35.105L and T36.120SL and high lift telehandlers - T35.130S, T35.130SLP, T35.140S, T41.140SLP and T40.180SLP. Gustavo Otero, president, Doosan Bobcat EMEA, said: "Bobcat telehandlers are popular all around the world. We want to further improve our presence and accelerate our growth in the construction market with this new generation. Leveraging from the ease of use, safety and reliability of our equipment, we aim to be present on every job site, where this kind of equipment is needed."

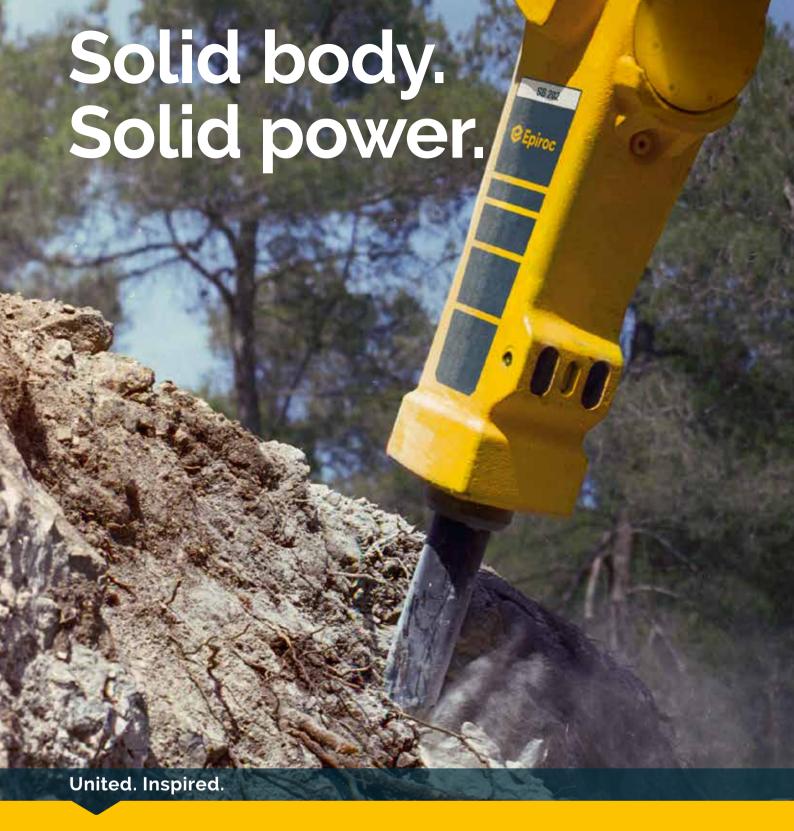
Commenting on the R-Series launch, Otero added: "Telehandlers are a fundamental asset of our business strategy and key pillar of our Next is Now initiative. Our new ground breaking R-Series range offers high performance, robust machines for maximum uptime with a focus on accurate controls and intuitive operation for tackling any job on the construction site. With these new models and the increased investment in our telehandler business, we are aiming to double the production of Bobcat telehandlers by 2025."

The new R-Series telehandlers offer agility, with a newly configured transmission system providing enhanced smoothness to carry out the trickiest jobs at height with surgical precision. These operations are also facilitated by the combination of the 'Boom Positioning System', the new updated, joystick, the inching function and the improved visibility from the cab. An enhanced inching pedal design is easier to use and reduces fatigue. A higher engine brake provides a shorter stop distance and increases safety on construction sites. The new telehandlers also feature a new cab with and a new engine hood with a steeper profile that increases visibility and reduces blind spots. Together with the new dashboard design, this provides excellent unobstructed visibility from the cab, allowing the driver to move around the job site with ease and minimise accidents or mistakes.

Access to the engine compartment has also been improved, enabling easier maintenance. Under the hood, R-Series telehandlers are powered by new upgraded versions of the Bobcat D34 Stage V engine, utilising DPF after treatment, which is automatically regenerated with no impact on performance and no disturbance for operators. They are also connected via Bobcat's new 'Machine IQ' telematics system further enhancing the efficiency of the ownership experience. For lesser regulated markets, the proven Perkins Stage IIIA engine provides high power and the simplicity of its mechanical injection system.

Quentin D'Hérouël, product manager for telehandlers at Doosan Bobcat, concluded: "As with all new Bobcat telehandlers, the R-Series offers customers peace of mind with a three year warranty (or 3,000h) on the entire machine as standard from the factory. Bobcat is the only manufacturer to provide a three year warranty as standard, allowing customers to focus entirely on growing their business without worrying about their machines. And with regards to the cab interior, we're now the leaders in the field."





A solid investment.

Our Small Breakers are truly versatile. The slim and compact design makes them easy to handle and enables quick positioning. The range is perfect for working in confined spaces such as inside buildings, up along walls or in narrow trenches.

epiroc.com













VACUUMS FOR LIFE



Heavy duty vacuum cleaners with filter technology second to none



RONDA® 200H Power





RONDA® 2800H



A large step towards a healthy work environment

V. BRØNDUM A/S

See the full range of RONDA® vacuum cleaners on www.broendum.com



The amendment to the Bio-waste Ordinance (BioAbfV) has met with a great deal of criticism among experts and associations as it is thought the requirements are technically unfeasible. Furthermore, it is feared that it will lead to an increase in bio-waste incineration and the reduced marketability of compost. Doppstadt Umwelttechnik GmbH has recently developed a mobile-modular processing concept, which at the time of the BioAbfV amendment being implemented, will increase plant operators' compliance, reduce the disposal costs thanks to a considerable reduction of the screen oversize, and increase the quantity of applicable, contaminant free compost.

Due to the 'smart' combination of individual Doppstadt machines, operators will benefit from higher plant operating efficiency and a quick return on investment (ROI) from the company's development. It also adheres to the required limit (in the BioAbfV amendment) of less than 0.5% of foreign material in the bio-waste before the first biological treatment has been made (depending on the overall conditions). Doppstadt has already sold the first mobile-modular plant to a large bio-waste processing enterprise, which has now led to a follow up order. "Our mobilemodular plant concept can already provide solutions today to future legislative requirements. It combines legal certainty with economic benefits, flexibility and risk minimisation. Therefore, the Amendment to the Bio-waste Ordinance is not a handicap, but a chance for plant operators," says Michael Zeppenfeldt, head of sales Germany for Doppstadt Umwelttechnik GmbH.

The Doppstadt plant concept is based on a combination of mobile machines, which are suited for various applications. They do not take up too much space and need not necessarily be operated in a processing area. In case of legal changes in the

future, users can react flexibly and reliably, either by replacing, extending and/or rearranging the plant or by selling individual machines. The system configuration for contaminant elimination in the field of bio-waste is composed of only three mobile Doppstadt machines. Thanks to the modularity of the system, the processing concept can be rearranged, or extended quickly and flexibly, according to the input quantity and material. The investment costs of such a plant concept amount to much less than €1M. Due to increased efficiency and disposal cost savings, the ROI for a mobile-modular Doppstadt solution can be around two to two and a half years. Furthermore, plant operators profit from a substantial reduction of administrative effort in the approval procedure (compared to stationary plants) as they are independent of target prices and quotas of external plants.

Substantial disposal cost savings

"An upstream separation can remove the contaminants more specifically without removing the valuable, recyclable bio-waste at the same time. In this way, plant operators save a lot of recycling costs," says Zeppenfeldt. By means of the upstream separation with mobile-modular plants, it is possible to reduce the oversize fraction to be disposed of by approximately 60%-70% regardless of what the legislation requires and in what form. In various plant tests, Doppstadt state that its system could achieve the contaminant elimination value of 0.5% of weight. "It is undeniable that the Amendment to the Bio-waste Ordinance (BioAbfV) will have a lasting impact on the technology to be used - plant operators will have to invest. But the upstream contaminant removal is not only technically feasible with our mobile-modular plant concepts, but it will yield a return very soon," Zeppenfeldt concludes.



The next generation from Prinoth builds upon the speed/payload combination of the Panther T14R, which is designed to move the most material in the least amount of time, with the model also featuring a boost in speed of up to 5%.

The T14R's overall architecture was redesigned to offer visibility gains, with unrestricted cab views providing safety for operators and other workers. The new T14R also provides operators with enhanced comfort and features such as new warning systems on the enhanced in cab display. "We didn't just make the machine more efficient," said Alessandro Ferrari, Prinoth CEO, "The advancements found in this new generation of Panther make operators more efficient as well."

Prinoth engineers also carried out upgrades inside of the Panther, including a new engine and a drive direction reset. The new generation of Panther vehicles is now driven by Cat's double label engine mod-el C7.1 EPA Tier 4 Final/ EUROMOT Stage V, supporting Prinoth's 'Clean Motion' philosophy. Clean Motion is the company's corporate philosophy for low energy consumption and environmental protection in ecologically sensitive areas.

SDF SLAB SAW BLADES



Who says you can't improve on perfection?

The SDF Floor Saw Blade Line Up,
Available in sizes up to 80" (2000mm)

Now featuring the S30N, new and improved version of our best selling S30, still the fastest cutting blades you can buy.

Just when you thought it couldn't get any better.



Fastest cutting flat saw blades on the market



Diameters from 18" to 80" (450mm to 2000mm)



Same long life of the best selling S30



A range of thicknesses available



T (317) 654 6037
E sales@dymatecusa.com
www.dymatecusa.com

T 01582 599 933
E sales@dymatecuk.com
www.dymatecuk.com

PDi special feature



Rock saws are versatile excavator attachments that are suitable for a wide variety of applications including, but not limited, to demolition, rock excavation, trenching and quarrying. Originated in Australia - the world's mining capital - rock saws are now manufactured in different corners of the globe. PDi's Andrei Bushmarin has the latest news from this growing industry.

Australia based Echidna Technologies started out in 1990 as a supplier of high tech instrumentation solutions and later robotic installations. Then in 2006, Echidna entered the excavator attachment market and used its vast engineering expertise to increase the safety and productivity of rock saws. In 2009, the Australian company moved the bulk of its production to the Czech Republic to take advantage of the high quality manufacturing there as well as the size and nature of the European market, which is largely focused on demolition and recycling. In 2018, Echidna USA was established to serve the North American market, manufacturing locally. Echidna now manufactures a wide range of earthmoving, cutting and grinding attachments and also supplies customised solutions for specialised or dangerous jobs.

Echidna's flagship model, the 'OmniCut' saw, was recently given a tough workout on some of the hardest concrete in the USA, where its capabilities were exploited at two different projects at the port of New Orleans. First, the attachment was employed in the demolition of an old warehouse to make way for container storage. Mounted on a 20t Kobelco excavator, the

Echidna O5HP OmniCut saw was used to make cuts 250mm high and 380mm thick into concrete heavily reinforced with multiple layers of 25mm-32mm rebar on 300mm centres. Being 30 to 40 years old, the concrete is extremely hard and challenging for any conventional rock saw. The Echidna OmniCut, however, passed the test with flying colours by carving through it at up to 10 times the speed of a regular diamond blade. Each cut took an incredible 2min and 15sec. The same saw was then mounted on a John Deere 333G compact track loader to deepen the umbilical cord trenches for the new



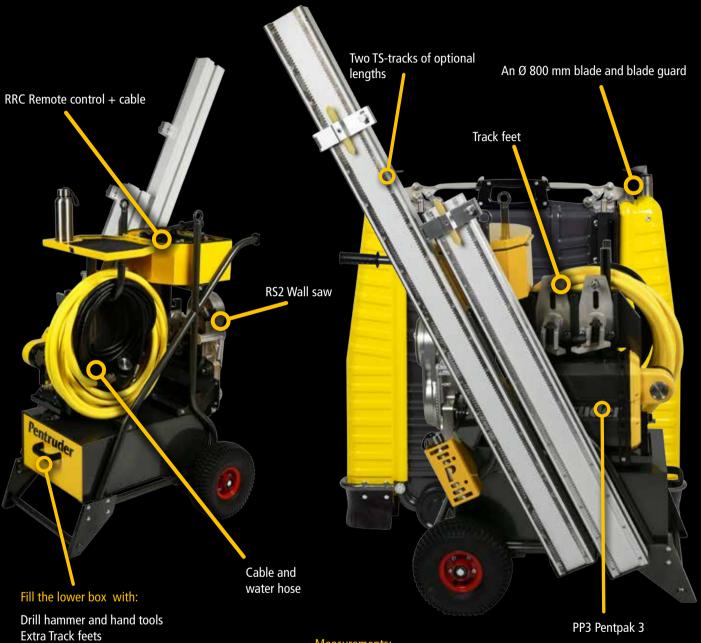
larger cranes being installed at the port. The wide kerf, clean cut provided by the OmniCut blade is ideal for microtrenching applications such as this. OmniCut rock saws have a relatively low blade speed for safety while ensuring high cutting speed. The long lasting OmniCut teeth can be replaced on site.

www.echidna.com.au

Kemroc shines on a major bridge renovation project in Germany

Headquartered in Berkheim, Upper Swabia, Max Wild GmbH is a large demolition firm with several depots in southern Germany. With a vast fleet of modern demolition equipment, the company boasts a strong track record in dismantling residential buildings, industrial complexes and bridges. Recently the German contractor was involved in one of the biggest demolition projects in its history when the old Saar Bridge at the Saarlouis autobahn junction was earmarked for replacement with a new one with higher traffic capacity. The specifier, the Western subsidiary of Autobahn GmbH, awarded the contract for the overall project to the consortium Schnorpfeil / SHE, who sub contracted the demolition

Pentruder[®] HETROLET



Measurements:

Width: 67 cm
Depth: 98 cm
Height: 117 cm



and more!

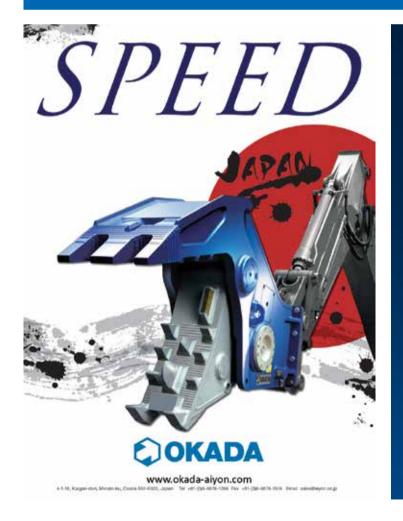


Your projects - our equipment - your success!

Janser GmbH

71139 Ehningen GERMANY

Böblinger Straße 91 Tel.+49(0)7034-1270 info@janser.com www.janser.com



Visit www.pdworld.com for more news and information







pre-stressed and non-stressed concretes. Using a combination of diamond saw and drum cutter, we made quick progress and achieved a cutting speed of some ten linear meters per hour." He added, "Even with a relatively high wear rate of the tungsten carbide tipped picks, this method proved to be the most economical solution due to high production rates."

www.kemroc.de

Antraquip's carbide and diamond rock saws

Founded in 1985 in Hagerstown, Maryland, Antraquip is a medium size family owned company that focuses on manufacturing rotary drum cutters and diamond and carbide saw attachments. To complement its core business, the US manufacturer also supplies soil mixers, patch planers and tunnel support systems. Antraquip's carbide rock saws are suitable for soft to medium hard rock and concrete cutting applications with a minimum width of some 50mm. Its diamond rock saws, also known as the 'AQD' series, are capable of cutting the hardest rock including granite and basalt as well as reinforced concrete.

www.antraquip.net

part to Max Wild GmbH. The plan called for breaking the old bridge down into sections that could be placed on pontoons and floated away to a crushing facility on the riverbank. The first stage involved the removal of all structurally non-essential elements from the bridge deck. These included the cantilever arms and the concrete slab between the hollow boxes of the autobahn lanes. Under normal circumstances, a concrete saw would have been enough for this task, but due to the extremely angled nature of the construction, the saw would have to be repositioned many times, which is a very time consuming option.

Following discussions between site manager Max Fus and Kemroc's application consultant Marco Schön, it was decided to make the longitudinal cuts along the bridge axis with a concrete saw and to use a 'DMW 220' drum cutter (220kW rated power, 500mm to 1,000mm cutting depth and 130mm cutting width) fitted on a 40t excavator for crosscuts. Featuring two lateral hydraulic motors, the DMW cutters provide high production rates. The DMW 220 encountered heavy resistance on the bridge panel that crossed the Saar River. The concrete was cut into segments, each weighing between

6t and 10t. Each segment was lifted out with a crane and transported to the crushing plant on the riverbank. Max Fus commented on the drum cutter's performances: "The bridge was tensioned in a transverse direction and was therefore structurally difficult to cut. Nevertheless, I was surprised to see the same performances on both







Control solutions for

BHS-Sonthofen now offers turnkey control systems for complete plants in the field of recycling and environment thanks to the newly founded BHS Control Systems GmbH & Co. KG. This development ensures that customers are provided with complete solutions tailored to their needs, including recycling, control and automation technology from a single source. BHS also provides assistance in transferring the control system to modern systems.

"A lot of companies currently use control systems and software that providers no longer support," explains Steffen Kämmerer, chief technology officer (CTO) at BHS-Sonthofen and managing director of BHS Control Systems. "That is why we are seeing an increasing demand for control solutions when it comes to expanding or modernising existing recycling plants." BHS now provides high levels of safety and flexibility both in the modernisation of systems and in new plants thanks to its efficient and open solutions.

BHS-Sonthofen has also significantly expanded its service portfolio in the area of control and automation technology with the acquisition of Thoma Elektrosteuerungsanlagen GmbH from Babenhausen on 1 January 2020. Using its more than 30 years of experience and expertise as a basis, the group now also offers customers engineering, supply, and design services for turnkey plant control systems for major projects in the recycling industry. BHS takes care of installation and commissioning and also provides user support and training. Customers thus benefit from the open interface architecture. "'Win CC Open Architecture' is an open and scalable system that enables a wide range of components to be integrated smoothly and it is suitable for both small and large plants," explains Kämmerer. BHS uses this as the foundation for custom solutions, with the customer being able to expand the plant as required without the need for major investment in interface management. From a simple small system to a complex high end system, the architecture is highly adaptable.

Win CC Open Architecture is also platform neutral and runs on Windows, Linux, Android and iOS. The system has proven itself to be extremely efficient when being used in everything from user guidance to system connection. BHS develops the individual components of its automation and control technology at its site in Babenhausen near Memmingen, Germany, in line with the customer's individual requirements. BHS Control Systems is already implementing a project for the processing of lithium ion batteries for the Recycling & Environment division of BHS.



Mecalac launches 3.5MDX

Mecalac has announced the launch of its all-new 3.5MDX cabbed site dumper, the latest addition to its state of the art portfolio. Designed from the ground up to set exacting standards in performance, safety and comfort, the innovative model offers all the benefits of the Mecalac MDX range in a 3.5t model.

Blending stylish design with 'rental tough' build quality, the new 3.5MDX is powered by a Stage V-compliant Kubota D1803 1.8L turbo charged three cylinder diesel engine, delivering 37kW at 2,700rpm and a peak torque of 150.5Nm at 1,600rpm. Thanks to the integration of a diesel particulate filter (DPF) and diesel oxidation catalyst (DOC), emissions are minimised, while fuel economy is optimised. Available with either swivel tip skip with 180° rotation (to enable precise lateral unloading without manoeuvres) or front tip skip, the new model is designed with an articulated and oscillating chassis to ensure excellent manoeuvrability and off road capability.

The 3.5MDX uses high and low range gearing for both forward and reverse, as well as permanent hydrostatic four wheel drive. This means that operators have torque on demand to effortlessly move loads in even the most challenging site conditions. This, combined with a maximum travel speed of 20kph, makes the unit quick and easy to move around site. An operating weight of 2,990 kg, length of 3.8m, width of 1.9m and height of 2.8m make the 3.5MDX highly compact and manoeuvrable, providing an effective solution for carrying high payloads in confined spaces and for a large variety of applications.

The 3.5MDX prioritises the highest levels of operator comfort by adopting Mecalac's proven 'MDX' cab with optional air conditioning to provide outstanding operator wellbeing in all weather conditions. Like all MDX models, the unique isolated cabin layout minimises vibration and noise, while ergonomic controls and

an adjustable seat provide a relaxed environment when working for extended periods. Alongside, featuring front and rear LED work lights as standard, the fully enclosed cab provides leading operator visibility thanks to large glazed areas and a curved windscreen, ensuring all around natural visibility.

With safety prioritised throughout the design process, the new Mecalac cabbed dumper incorporates MDX design characteristics, resulting in easier and safer access to the machine thanks to high visibility and easy reach steps and handrails, as well as an excellent engine access enabling all servicing operations from ground level. In order to ensure a higher level of operator protection in any situation, the certified ROPS/FOPS MDX cab has been additionally designed and tested by Mecalac to withstand impacts while loading the dumper skip. The Mecalac MDX cab impact test video may be viewed at: https://youtu.be/Oy8z2CLgFgQ

For additional safety, the 3.5MDX features 'Shield' - Mecalac's package of safety critical operator features - as standard. Key technologies include start and drive interlock, handbrake warning, digital speedometer, fuel loss warning sensor, automatic idle shut off, park brake test and 'Stop-Start Control'. All Shield safety features are adjustable to suit different applications where these are not required.

The new 3.5MDX is the latest addition to Mecalac's pioneering MDX range, which also includes the 6t 6MDX and 9t 9MDX. The range offers construction professionals with a suite of high performance options to suit their specific requirements.

Exceed The Limits, Cut Faster.



The Only Universal Motor Ring Saw

3200W Power 220mm Depth Of Cut Patented One - Step Drive Tensioner

AGP Europe

+32 53 21 62 22 www.agp-europe.com info@agp-powertools.eu

AGP Taiwan

+886-5-5518689 www.agp-powertools.com info@agp-powertools.com



PDi site report



Decom chooses Bobcat 'Waste Expert'

A new Bobcat TL43.80HF Waste Expert telescopic handler has proved to be the ideal solution for Matera based Decom Srl, for handling waste and recycling. Located in the south of Italy, Decom is one of the first companies in the country to achieve 'End of Waste' certification, specialising in the recycling of plastic, paper, aluminium, glass, cans and many other materials from waste collection. The company's goal is to recycle 98% of the material that is processed at its Matera plant and is keen to promote the culture of recycling. Founded in 1997, Decom began life operating in the freight transport industry, before evolving and specialising in the transport of special waste. In 2008, Decom moved into recycling community and industrial materials, culminating in the opening in 2015 of the first plant in Matera.

To carry out the transport and management of recycled materials, Decom uses Bobcat telescopic handlers which, thanks to their robustness, efficiency, versatility and ease of use, have proved to offer the essential characteristics needed for intensive industrial applications typical of the waste industry.

The latest addition to the fleet of Bobcat telescopic handlers is a TL43.80HF Waste Expert model, which is equipped with a package of features aimed specifically at handling materials in the waste and recycling industry. Giuseppe Labbate, plant manager at the Decom plant comments: "Over the years, to improve the quality of work and to speed up the production cycle, we first purchased a Bobcat TL26.60 telescopic handler, which continues to be used inside our shed area, and then added a Bobcat TL38.70HF model, which operates externally, for the loading of materials on to trucks.

"We have recently further expanded the telescopic handler fleet with the Bobcat TL43.80HF Waste Expert, which is even tougher and higher performing. Designed with reinforcements and protection such as the strong chassis and cab and light grids, this machine is perfectly suited to our work, where the materials we handle are often at risk of falling on to the machine. Furthermore, the agility provided by the four wheel steering, the compactness and the lifting capacity of over 4t, has made the handling and loading of materials for recycling a much simpler process, with a consequent increase in productivity. The TL43.80HF Waste Expert works in a continuous cycle, 24h/day, and is particularly suitable for handling and loading paper and glass which have high densities from 2,400 kg/m3 to a maximum of 2,800 kg/m3."

Decom purchased all of the Bobcat telescopic handlers from Caldarola Srl, which has been the Bobcat dealer for Puglia and Basilicata since 1986 when Agostino Caldarola, the company founder and owner, decided that the future for his company and for construction was in compact machines, and immediately chose Bobcat as a partner. "In the past, Decom used another brand of telescopic handlers," says Marcello Masi, sales manager at Caldarola.



Configured as a mobile version, a Sennebogen 821 E is being used to feed one of Germany's most modern waste sorting facilities operated by Hufnagel Service. The family run waste management company opted for the material handler which is connected to the power supply via a permanently installed cable on the ceiling of the hall. Additionally, the diesel generator replaces the rear ballast, with the diesel power pack being able to be removed for maintenance work.

The Sennebogen 821 E economical electric material handler with 11m sorting equipment has since 2020 been used by Hufnagel Service at its waste sorting facility in Germany, handling around 125,000t of waste per year. "Initially, we had used a Sennebogen with a diesel engine in the 5,000m² hall in front of the shredder, and noticed that we didn't actually move it from the spot, except for maintenance work. Now we feed the plant with an electric material handler including an additional diesel generator at the rear. This 19kW auxiliary engine allows the machine to remain just as manoeuvrable as the previous model. However, we are now saving on operating costs in a big way by relying on the electric drive," explains Marc Hufnagel.

According to Marc Hufnagel, many other reasons speak in favour of switching to the environmentally friendly, electrically powered material handling machine. It produces no exhaust fumes, and is therefore a welcome alternative for indoor use, it can call up its full power immediately after the engine is started, and promises a much longer service life. It also requires less frequent maintenance, as oil or fuel filters do not have to be changed. However, the 90kW electric motor, classified according to IP65 enclosure protection, was not installed, as Marc Hufnagel explains: "You can't imagine what a big problem the fire hazard caused by lithium ion batteries has grown into in our industry.

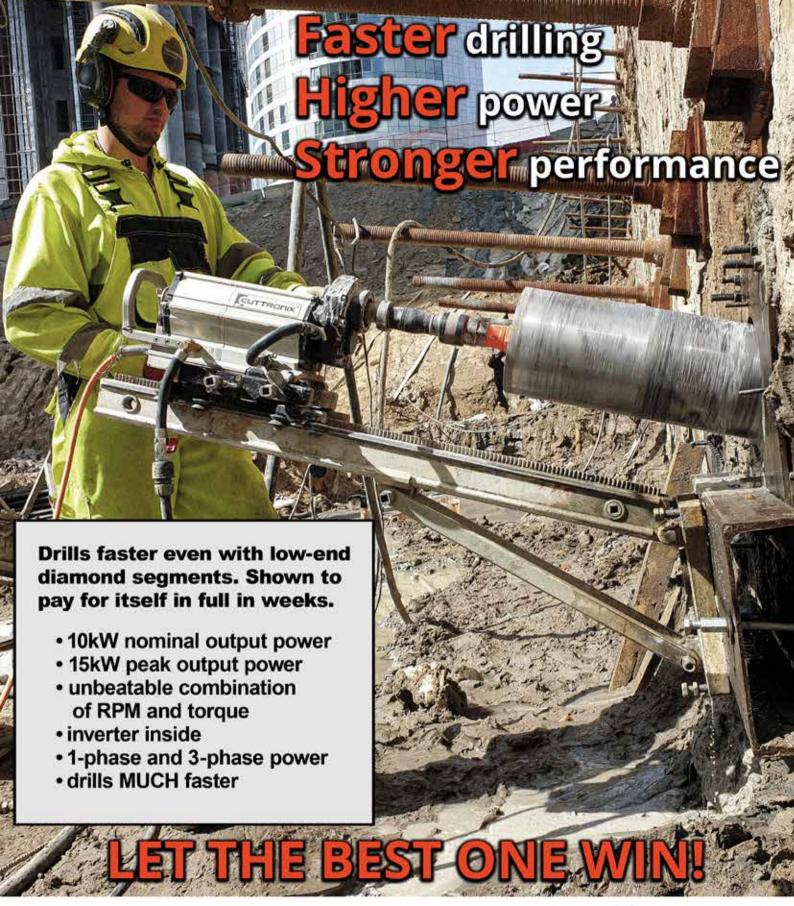
"Batteries and rechargeable batteries are now installed almost everywhere, from children's toys to electric bicycles and power tools. When these have not been properly removed before disposal and are subsequently damaged in the shredder, the heat generated usually leads immediately to minor or major fires that are difficult to extinguish." Such a risk also exists at Hufnagel's facility, although in such an event, an automated fire extinguishing system that monitors the entire facility with thermal imaging cameras initiates firefighting with foam, even if the electric material handler is still in the hall.

Trenching in sandstone fast and accurate

While upgrading the A3 Autobahn in northern Bavaria, the Steigerwald Süd service area had to be increased in size which involved extensive trenching work. Civil engineering contractors working on the project rented a 42t excavator with a Kemroc EK 150 chain cutter attachment to carry out the work. Even at depths down to 9m, the chain cutter worked its way through the compact sandstone with precision. Despite working in such difficult geological conditions, consumable costs were kept within reasonable limits. To further aid trench excavation, technicians from Kemroc's trading partner, Beutlhauser Smart Systems, added a GPS based excavator control system. Combining satellite location data together with data from a reference station on site, the position of the excavator attachment in both horizontal and vertical planes could be determined accurately.

Lukas Emmanouilidis, site manager for contractor Bunte stated: "Of course, the production rate depends on the depth and strength of the rock and this can vary a lot, but as an example, in a two week period in November we completed 50 linear metres of trench which, in these geological conditions, is quite impressive. The grain size of most of the excavated material was small enough to be used directly for backfill. Only a small amount of oversized material had to be crushed before it could be used."













Komatsu PC2000-11

Komatsu Europe has announced the introduction of its new PC2000-11 hydraulic excavator. Equipped with an EU Stage V certified engine, the PC2000-11 has more horsepower and a new engine pump control for faster cycle times and improved multifunctional performance.

Tipping the scales at 202t, the new super heavyweight boasts new engine pump control logic that optimises hydraulic flow to deliver even faster cycle times. The PC2000-11 is ideal to load 60t to 150t rigid frame haul trucks and is an excellent tool for stripping overburden, loading coal and loading shot rock. It has a simplified power module (cooling package, engine, PTO, and hydraulic pumps) that provides excellent accessibility to major components, low noise levels in the cab, and reduces labour hours when it comes time for planned overhaul.

Gregory Peeters, Komatsu Europe product manager says: "Engage the new 'Power Plus' work mode and productivity levels are off the scale. To cope with this extraordinary power, the frames, boom, arm, and undercarriage are all strengthened to ensure maximum uptime in even the most extreme applications."

The PC2000-11 also benefits from a new mining class ergonomic cabin that offers a safe, comfortable, connected driving experience.

Safety is Komatsu's number one priority, with the PC2000-11 having a hydraulically activated access/ egress ladder, external emergency shutdown switches, and 'Komatsu neutral detect' all as standard. 'KomVision', Komatsu's machine monitoring system also comes standard. To increase operator awareness of haul trucks and light vehicles entering and leaving the working area, a seven camera system provides a full 360° bird's eye view of the working area on a dedicated touch screen monitor. Proven Komatsu after treatment systems allow the PC2000-11 to meet stringent EU Stage V emissions regulations without the need for Adblue. Additionally, the new excavator comes with the 'Komtrax Step5', 'Komtrax Plus' and Komatsu's 'Care' support package for further levels of customer value.

The PC2000-11 has been designed to provide improved multifunction performance, with what the company claims is a productivity increase of up to 12%, and can therefore load more trucks per shift. The redesigned hydraulic system monitors work equipment loads and optimises hydraulic flow based on operating conditions. The PC2000-11 is equipped with selectable working modes to tailor machine performance to application requirements, including the all new Power Plus mode. Increased engine power and new engine pump control logic give the PC2000-11 faster cycle times. Customers can further expect extended component life on the PC2000-11 thanks to thicker, stronger boom plates and castings; strengthened track and centre frames; larger diameter carrier rollers and improved hydraulic cylinder seals. The new seals on work equipment cylinders enable the PC2000-11 to withstand the most abrasive applications.



Komatsu Europe introduces PC360LCi/ NLCi -11 excavators

The new Komatsu PC360LCi-11 and PC360NLCi-11 with 'iMC 2.0' are excavators that offer high productivity earthmoving and precision grading in a single complete package. Building on the success of Komatsu's pioneering fully factory integrated machine control, these new models for the European market further expand the range.

"On the previous model we had examples of customers using iMC to replace standard excavators," says Rob Macintyre, product manager at Komatsu Europe. "They immediately benefitted from using their machine for grading as well as for truck loading, allowing them to redeploy other equipment and to really optimise their fleet on the jobsite. We believe that the new iMC 2.0 versions will give them even more opportunities to do this."

Operating weights of the PC360LCi/NLCi-11 range from 35,770kg to 36,850kg, with a maximum recommended bucket capacity of 2.66m³ whilst the fuel efficient, EU Stage V Komatsu engine has a power output of 202kW at 1,950rpm. For fleet management and support, protecting the machine against misuse and to provide maximised efficiency and uptime, the excavators come with the latest 'Komtrax' telematics and the Komatsu 'Care' maintenance programme.

Komatsu 'intelligent Machine Control 2.0' (iMC)

Launched in 2013, Komatsu's fully factory integrated intelligent Machine Control system today counts over 1.5M customer operation hours on excavators in Europe alone. Fully supported by a network of highly experienced Komatsu distributor technology solutions experts, it has provided Komatsu customers with field proven, automated digging control and what are said to be market leading levels of quality, reliability, accuracy and performance. The

European market introduction of the PC360LCi-11 and PC360NLCi-11 brings along several new intelligent features that further boost machine and jobsite productivity and efficiency.

The new 'Auto Tilt Control' for tilting buckets makes operations on slope and ditch work easier, automatically limits under digging and increases bucket fill. The bucket automatically tilts to the design surface with no need for the operator to manually intervene. With the new 'Bucket Angle Hold', the operator no longer needs to use the lever to maintain the bucket angle through the grading pass. Once the desired angle is selected, this feature automatically maintains it as the arm moves in.

A new iMC 2.0 monitor provides high levels of ergonomics and intuitive smartphone like screen navigation features. Slimmer, lighter and more compact, it has increased memory capacity and fast processing speed. iMC 2.0 also provides customers with new levels of flexibility and value thanks to the introduction of a new 'IMU' sensor for tilt buckets. Easily mounted and calibrated, it increases attachment and machine utilisation, allowing different tilting buckets to be fully integrated to the excavator's control system. Additionally, connection can be made remotely with the transfer of project design files accomplished through a 'Smart Construction Remote subscription'. The new PC360LCi-11 and PC360NLCi-11 come complete with the original Komatsu iMC features including, 'Auto Stop Control', 'Auto Grade Assist' and 'Minimum Distance Control'.



Over the last decade with heavy investments in modern equipment and automated facilities we became the top quality manufacturer of construction and stone tools in Turkey.

Today, with over 45 years in manufacturing we offer the best quality and value for our customers covering five continents.





More than 20 years ago, Hilti launched the first electric wall saw with 5kW of power. It was the start of a journey determining the way forward, driven by weight, easy connectivity and increased productivity.

n order to increase productivity even more, Hilti introduced the industry famous 'Cut Assist' and took away the separate convertor box. In the near future additional tools will be added, including the advanced Cut Assist system and wireless remote controlling.

Wall saws range

Currently Hilti offers two wall saws, 10kW and a 20kW, with the DST 10-CA being handy as far as weight and space reduced environments are concerned. Due to its efficiency, it is able to transfer 8kW of power output thanks to the 'Hilti Traction Control', resulting in a cutting depth up to 380mm. Connectivity to a 16A plug makes it a versatile tool that can be deployed on any construction site around the world.

With 30 % more power and three times the starting torque, the 20kW Hilti DST 20-CA wall saw provides excellent performance. With the only in its class integrated convertor box, the machine is easy to transport, avoids long set up times and can be cordlessly controlled. The remote control indicates all the cutting parameters making it easy to operate. Drawing its power from an industry standard 32A plug, and with a 60 % reduction in weight compared to its predecessor, this machine produces an astonishing cutting depth of 730mm.

The Hilti 'Equidist' saw blade line is a perfect match for the Hilti wall saws. The technology ensures the optimal cutting performance using precise distribution of the diamonds in the blade. Combined with Hilti's perfectly tensioned blade cores, the extra performance required on any job site is provided.

Wire saws

Originally, wire sawing was proposed as a solution to cut natural stone for more refined quality compared to



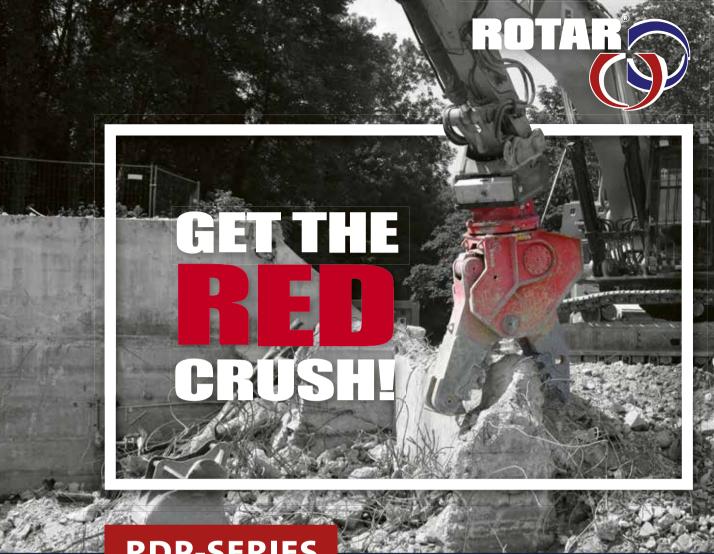
Electric wall saw portfolio, DST 10-CA and DST 20-CA

blasting or breaking half a century ago. Now wire sawing is appreciated to be the ideal technology for cutting complex and multiple structures in any material, no matter where it is cut.

Over the decades, Hilti has developed what it says is the most extensive range in the world in both standard and bespoke wire solutions, combined with matching diamond tools. Currently Hilti provides off the shelf solutions in three electric versions (10kW, 15kW and 30kW) and an unlimited range of bespoke solutions. In both standard and bespoke solutions, the tensioning of the diamond wire is done through a pneumatic system (contrary to any hydraulic system, the yield is virtually non-existent) ensuring optimal tension.



The Hilti Equidist segment.



RDP-SERIES

ENORMOUS CUTTING POWER AND RAPID CYCLE TIMES GUARANTEE **INCREDIBLE PRODUCTIVITY**

- **Power** Unique cylinder positioning, quarantees maximum force during total cycle
- **Material** Built of high performance structural steel
- Convenience Always in good condition with easily replaceable wear-part
- Modern Lowest fuel consumption and operational cost of pulverising





The Hilti wire saw range.

20kW wire kit and 10kW

The new (DSW 2005-TS) wire kit is fully compatible with the existing range of Hilti wire saw accessories and is coupled to the DST 20-CA wall saw. With the possibility to saw both vertically and horizontally, the kit allows the user to do small interventions on miscellaneous jobsites. Thanks to its modular design, set up is quick and easy. The 10 kW (DSW 1005-E) wire saw ('Compact') allows small interventions on miscellaneous small jobsites to be accomplished, with easy set up making it the ideal tool for these applications.

15kW equipped with Cut Assist for productivity and safety

The 15kW (DSW 1510-CA) is the successor to the well-known and appreciated DS WS15 wire saw. It is the uncompromising solution for controlled demolition work of all kinds. Thanks to integration of all electronics in the drive unit, there's no longer any need for a separate electrical box and the cumbersome tangle of connecting power cables, motor control and remote control cables. The integrated control electronics also eliminate lengthy setup and transport times, allowing the operator to begin cutting without delay. Quick to setup and easy to operate, this powerful wire saw provides maximum efficiency with its two electric motors and pneumatic wire tensioning that deliver high class performance under the toughest conditions, while the built in wire storage system guarantees compact dimensions.

Even more important, the DSW 1510-CA wire saw comes with the Cut Assist assistance software which is a major step towards more safety and productivity on the jobsite. All cutting parameters such as the depth of cut are visible on the display in real time meaning that the operator has full control of each individual step of the procedure. Thanks to 'WRC-CA', there are no more restrictions on the operator position, who is thus able to steer the sawing process from a distance and from the position from where the process can be best overviewed.

Besides the safety aspect, productivity was an important driver for Hilti's product developers. To make the handling of the wire saw portfolio as easy and efficient as possible, the remote control used for all wall saw models in Hilti's portfolio is the same. These features make the DSW 1510-CA a tool for structural alterations of buildings or infrastructure or for technical demolition of structural components such as bridges chimneys, tunnels, dams and foundations.

30kW for performance

When output and performance become predominant on a job site, the 30 kW (DSW 3018- E) wire saw is a unique machine in the industry offering phenomenal performance while remaining compact at all time. The top of the range standard wire machine is able to cut heavily reinforced concrete and steel to high levels of performance.

Wire saws accessories on top of the standard range

Hilti's partners sometimes face challenges that can be solved with the standard range but do however require certain additions in order to make the machines even better performing. Therefore Hilti offers accessories ranging from pulleys for plunge cutting (cutting concrete without having access from the bottom/back), to flexible pulley systems (to reduce the angle of attack and facilitate the setup), to additional wire storage with an optional cooling system for dry cutting as well as a dust collection system for dry cutting concrete. Furthermore, from a safety point of view, wire guards guarantee the operator's well-being.

Wire saws bespoke solutions

Across different industries there are different needs which cannot be satisfied with standard machines. To meet specific customer needs, Hilti is developing innovative bespoke solutions which come with a lot of advantages. Customers experience often 100% better cost efficiency for their serial cutting applications as well as reducing the risk faced by the operator (regarding safety and health). Hilti also makes bespoke solutions easy to handle requiring close to no training. On top of





Hilti bespoke solutions.

that, operator intervention is reduced to the maximum with advanced Cut Assist (remote control of the machine even using LAN driven software) and closed loop wires that guarantee no wire breakage, hence no operator intervention required. The bespoke machines are said to outperform any other conventional technology with a factor up to 10, with every bespoke solution being optimally made to measure whatever the application be it nuclear, oil and gas etc.

Wire saws diamond wire

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

Hilti is the only way

Whatever the challenge, Hilti is ready to provide either off the shelf or bespoke solutions to help its partners make jobsites as efficient as possible. Furthermore Hilti offers extensive services through its unique fleet management programme which provides financing and additional service elements such as repairs at a fixed cost and the availability of loan tools in order to allow partners to continue working when the machine is out for service.

www.hilti.com









Kruisbaak 25 2165 AJ Lisserbroek The Netherlands

- **1** +31 (0)88 20 20 600
- info@dehaco.nl







One saw blade for all materials

With the Cut-All, the Austrian manufacturer of grinding tools has introduced a new all-round development for the construction site. The all in one saw blade makes the processing of materials a simple task without changing blades and with the usual levels of quality.

The Cut-All diamond cutting disc is the new allrounder development for the Tyrolit range which is said to have impressed both professionals and domestic users with its versatility. The product name explains its premise - a robust saw blade that is well suited for almost all materials found on the construction site. It is said to also be the ideal tool for all kinds of conversion work in the house and garden as well as proving suitable for rescue work undertaken by rescue services. In addition to a long lifetime, the new all in one disc provides clean cutting and has been available in standard diameters since the end of 2020.

The Cut-All has been designed for universal use in the construction, gardening and the landscaping. It can deal with all sorts of materials including concrete, stone, cast iron, composite materials, plastics, glass, wood, sheet metal and metal sections, making it ideal for emergency operations by fire brigades and rescue forces. It has been designed to provide a long service lifetime and deliver constant cutting performance.



Hilti receives EcoVadis gold sustainability rating

The Hilti Group's EcoVadis sustainability rating has risen from silver to gold status within one year. This puts the construction technology group in the top 5% of all companies that have received such a rating.

The new gold rating places the Hilti Group in the top 5% of all 75,000 companies assessed worldwide by EcoVadis. "We are pleased that our intensive efforts to become more sustainable as a company are already beginning to bear fruit. Our gold rating reaffirms that we take this seriously," said Christoph Loos, CEO of the Hilti Group. "However, we will not rest on this result and are rather motivated to further improve. We want to become the leader in our industry when it comes to sustainability."

EcoVadis rates companies according to a total of 21 criteria in the four main topic areas of environment,

labour and human rights, fair business practices and sustainable procurement. In the Hilti Group's 2021 rating, the progress made in the area of sustainable procurement, and the role of sustainability factors in the selection of suppliers, were recognised. The systematic, holistic approach taken in the area of labour and human rights, and the resulting improved transparency, were also acknowledged.

In spring 2021 the Hilti Group presented its expanded sustainability strategy and published its first sustainability report. The strategy is based on a holistic understanding of sustainability and covers three action fields: environment, people and society. In addition to new targets, the strategy also includes the tightening up of existing targets, such as achieving CO2 neutrality in the company's own value chain, as early as 2023.



'CONSTRUCTION SITE 4.0' FROM TYROLIT CONNECTS MACHINES WORLDWIDE

In a constantly evolving world, efficiency is becoming increasingly important, and through construction businesses using the innovative 'MoveSmart' technology, Tyrolit machinery is now connected to the internet for the first time. The technology sends important operating and application data from the construction site directly to the cloud, with the MoveSmart fleet management platform being developed to help contractors shift towards data driven decision making.

The future starts now

The new generations of wall saws and drilling motors from Tyrolit are already equipped with an IoT (internet of things) module and are therefore immediately platform ready. In addition, MoveSmart supports the integration of older machines and machinery from other manufacturers. With the IoT module, customers are able to discover the exact location of the machine

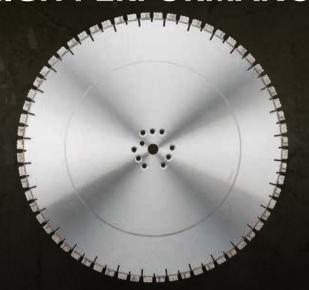
worldwide, overview detailed charts about the utilisation of the machine and receive updated information on diagnostics and maintenance. It also removes the need to search for machine related documentation and certificates as everything is available to download at any time. A 'reservation' option helps multiple teams to plan work removing the possibility of double booking the same machines, whilst support can be provided as well as instant troubleshooting advice or service requests.

Plan and act smart from anywhere

Worldwide connectivity and location tracking are provided with MoveSmart as it provides detailed analytics on machine utilisation as well as diagnostics and maintenance data. The facility exists to upload and access to all necessary machine documentation and certificates and is available with other features via an internet connected PC or smartphone.



HIGH-PERFORMANCE WALL SAW BLADES



Tensioned for hydraulic, high-cycle and pneumatic wall saws

Featuring a bond developed especially for free-cutting

Suitable for all types of applications including concrete, reinforced concrete and brick & block

Offering a 9-hole pattern that matches both 3- and 6-hole fittings

Whether cutting, drilling or grinding - we've got you covered! Contact us today:

North and South America: syntecdiamond.com | sales@syntecsolution.com | +1 760 737 7407

Europe, Asia and Oceania: syntecdiamond.com | sales@syntecdiamond.com | +61 8 8395 0277







Doosan Infracore to accelerate battery pack business

Doosan Infracore has announced that the company has manufactured its battery pack prototype no. 1 that has been developed in house. The prototype is expected to help Doosan Infracore accelerate its battery pack business and motorized product development.

A battery pack is the final form of the battery system mounted on motorized machines. It is configured with control and protection systems, such as a battery module that bundles a certain number of batteries in cell units into a frame, a battery management system (BMS) and a cooling system. Doosan Infracore's battery pack offers the advantage of a flexible design to meet unit voltage and capacity requirements by combining standardised cylindrical battery cells. Using the BMS, the standardised and shared design has been applied to enable battery pack configuration with up to 32 modules regardless of parallel or serial connection. The battery cell offers improved energy density and stability by using structural adhesive physically and wire bonding electrically.

Doosan Infracore has been developing battery packs after completing a feasibility review of the electric power pack business last year. Having developed the prototype, it plans to manufacture an initial 1.7t electric excavator with the battery pack after testing it while mounted on actual equipment.

Doosan states that the battery pack can be mounted on all electrically driven vehicles, such as construction, mining and agricultural machines and golf carts. The company has set an annual sales target of €365M or more in the battery pack business by 2030.

Previously, Doosan Infracore has successfully developed the company's mild hybrid powertrain technology, a middle step between the internal combustion engine and the electric motor drive. The hybrid powertrain adds electric motors and batteries to the internal combustion engine to offer power ignition, improved fuel rating and output, and reduced carbon emissions. Doosan Infracore's 48V 'Mild Hybrid Powertrain' was selected as a notable new product for 2020 by Diesel Progress magazine.

We are Korea's best engine manufacturer and have developed engines for vehicles, ships, industrial machines and military machines and for export to Europe including Germany, the leader in engines, and China. We intend to become the leader in the global engine market by accelerating the development of hybrid powertrains and developing electrical drive technologies in this great paradigm shift in internal engines," said Doosan Infracore CEO, Sohn Dong-yeon.



With 'K1 PACE', Husqvarna has taken a big step forward to offer customers a high power battery cutter that can handle the heavy duty jobs. This is the first product to be launched on the company's new battery system, 'PACE'.

"What we presented on 10 June was a breakthrough in the market for power cutters. We are extremely proud to introduce a high power battery cutter that fully supports the transition to low carbon economy the construction industry needs," says Mattias Holmdahl, global product manager for Power Cutters at Husqvarna Construction. With more than 60 years of experience as a power cutter manufacturer and with a leading position in handheld cutters, Husqvarna Construction believes it has the expertise it take to lead the development from petrol to battery powered equipment.

With K1 PACE, customers can expect power and performance equivalent to petrol powered cutters with all the additional benefits battery powered equipment brings to both operators and the environment. Mattias explains: "We see an increasing number of construction companies striving for carbon neutral workplaces, and as a leading supplier, we feel a responsibility to contribute, together with our partners and customers towards greater sustainability." The PACE battery system can be utilised for more machines as the battery powered family expands. In addition to the power cutters and battery system, diamond blades in 300mm and 350mm have been optimised for battery operation. The machine is also equipped with 'X-Halt' brake function capable of stopping the rotation of a blade in a fraction of a second for enhanced safety.

K1 PACE was shown at World of Concrete in the US from 8 to 10 of June and for those who had the opportunity to try the machine, Mattias Holmdahl promised a whole new experience. "We know what it takes to get the high demanding jobs done, and we do not compromise on quality and safety. With K1 PACE, customers get a high performance battery power cutter that provides zero direct emissions. They can expect lower vibrations, smoother cutting and that the machine's low weight and optimal centre of gravity help reduce the strain on their body."

K1 PACE will be demonstrated by Husqvarna Construction and the 'sales start' will take place in stages during the second half of the year, starting in the Nordic countries. More technical data will be released at the start of sales process.

RecyclingAKTIV & TiefbauLIVE moves to 5 to 7 May 2022

After months with no indication given of when trade fairs will be allowed to recommence, the initial conditions for holding shows were laid out on 14 May. But the new parameters under which trade fairs can take place, assuming infection levels remain under control, have come too late for many international businesses which needed clarity in

order to plan participation. This has led to many cancellations from many important exhibitors. As a result, Messe Karlsruhe, organiser of the RecyclingAKTIV & Tiefbau-LIVE twin trade fairs, has decided to postpone the event from 2 to 4 September of this year to 5 to 7 May 2022.

www.recycling-aktiv.com



Complete and effective floor maintenance system

'SupraShine' is the new generation of maintenance pads by Superabrasive which has been developed to restore and upgrade any floor, from VCT and epoxy to marble and polished concrete. The line includes four types of pads: 'SupraShine Regular', 'High-Performance', 'Heavy Duty' and 'Hybrids', to cover all floor care needs, from deep cleaning and restoration to daily maintenance. These require no need for special equipment and can be used with auto scrubbers, buffers and burnishers. Furthermore no chemicals are required as they are designed for use with water providing sustainable floor maintenance with minimum environmental impact. The company states that with a simple and easy process and fast results, SupraShine delivers outstanding cost savings.





Tana mobile waste shredder

gives Agon Pacific a foothold in Thailand's waste to energy market

Thailand is responding to the growing demand for electricity with a network of small waste to energy (W2E) plants, with Agon Pacific's Tana 440DT mobile waste shredder now producing fuel for one of these plants from factory rejected car tyres that are unfit for road use.

In Prachinburi, Thailand, a Tana 440DT mobile shredder reduces rejected tyres to small chunks of rubber and separates the steel used for reinforcing the tyres. "The benefit of the Tana (shredder) is that it does not only cut tyres but shreds them, allowing any metal to be separated from the rubber and nylon to be incinerated. The separated metal is so pure that our customers can sell it directly onwards as a recycled material," says Tommi Ijäs, CEO of Agon Pacific. Based in Bangkok, Agon Pacific's main lines of business include manufacturing boiler pressure parts and boiler maintenance services. "Rather than building new boilers, our job is to make existing power plants operate longer and with better efficiency," Ijäs says.

In recent years, the company has expanded its operations in Thailand to the booming W2E business. Since 2019, Agon Pacific has been providing fuel to Green Power Energy Co., Ltd., which generates electricity from shredded tyres. "Approximately 2% to 3% of new tyres do not meet the quality requirements. Our customer's boiler requires small pieces measuring about 50mm x 50mm, which our Tana waste shredder is easily capable of producing from tyres."

Demand for waste incineration

Ijäs knows Thailand and its society well. He moved there from Finland as far back as 1997. As in many other countries, the circular economy and the reuse of various types of waste are topical issues in Thailand. "There is effective waste management in Thailand's cities, although drivers of garbage trucks still spend a lot of their working time sorting garbage. There is no waste management in the countryside, where a large part of the rubbish is collected in barrels and then incinerated at regular intervals," Ijäs states. For Agon Pacific, the evolving energy and waste management sector means new business opportunities.

In a country with a growing population, there is a need for services that make the circular economy more efficient. In its W2E model, Agon Pacific uses a Tana 440DT to produce tyre shred that is suitable for incineration on behalf of the customer. "Much of Thailand's electricity is based on

gas imported from Myanmar, but Myanmar increasingly needs the gas itself. We want to create solutions for the waste to energy business, for which there is a clear need both in Thailand and elsewhere in Southeast Asia."

As the population continues to grow in Thailand and elsewhere in Southeast Asia, more electricity needs to be produced in a more environmentally friendly way. For this reason, Thailand is investing heavily in W2E production. The country's vision is a decentralised electricity generation system, with the construction of about a hundred small waste fired power plants in 76 provinces throughout Thailand. "Because power plants in a decentralised system are in the order of 8MW to 10MW, there is no need to renew the existing grid infrastructure. This means there is a huge demand for the processing of combustible materials," says Ijäs.

Mobility enhances productivity

An important factor behind the service agreement signed between Agon Pacific and Green Power Energy was the equipment operated by Agon Pacific. From the outset, it was clear that the equipment needed to shred tyres had to be durable and energy efficient. Furthermore the shredder moves on tracks and runs on biodiesel. For Agon Pacific, the mobility is an important advantage as it has proved to be more cost effective than fixed shredding lines. "Fixed shredding lines are tied to one place, whereas a mobile shredder is equally valuable in any location," Ijäs says.

Agon Pacific's mobile shredder handles approximately 10,000t of tyres a year for Green Power Energy. In addition to serving its anchor customer Green Power Energy, the mobility of the shredder has enabled Agon Pacific to expand its W2E business. When the shredder is not needed in Prachinbur, Agon Pacific has transported it to work 300km away at another customer's RDF waste incinerator. "The shredder is easy to move overnight to a new location. It has proven to be extremely effective at the RDF plant, as the small size of the shredded material it produced has helped increase the plant's output by up to 20 %," Ijäs says, who is so impressed with the Tana, that he is considering selling them himself.





Impaktor 250 evo takes family owned recycling company to the next level

Husband and wife team Myles and Aimee Tichband have a strong connection to the recycling industry. Aimee's father ran a successful waste and metal recycling business when Aimee was young. In 2015, the couple decided to start Copia Metals, based Charlton in south east London. Since it's opening, the company has seen steady growth. In December 2020, Copia Waste opened alongside Copia Metals providing a one stop shop for recycling needs.

"With both Copia Waste and Copia Metals growing exponentially, the biggest challenge we face is recycling and managing the material we receive. Specifically at our waste transfer station, general construction waste is what we deal with, on a day to day basis, from sites in and around London. Trying to hit our recycling targets in a quick, effective, environmentally friendly manner is one of the core values that set us apart from other companies, that's why we believe it is an aspect which needs to be continuously monitored in order to improve it," explains Aimee Tichband, managing director of Copia Metals & Waste limited.

Aimee continues: "This challenge led us to our latest purchase - the Arjes Impaktor 250 evo - custom made for Copia green. Doyle Machinery (Arjes' distributor) is very well known within the waste and metal industry, so they were our first port of call when looking to purchase a shredder. Doyle machinery and Patrick King gave us first class service, great advice and arranged everything, right down to the customisation of the machine. Since the moment we received the shredder, we have been able to speed up the recycling process by collecting the various waste streams, processing them directly and sorting them into different recyclable categories, as well as saving well needed space by reducing the volume of the material, therefore, more waste can be processed on site. We purchased both the metal and waste shredding tool shafts with cassettes, which are easy and trouble free to change making the Impaktor 250 evo perfectly versatile for both sides of our business. We are more than satisfied, not only with the machine, but also with the service provided by Doyle Machinery, in particular Patrick, who went above and beyond from start to finish."

"We look forward to the continued growth of both business and can't wait to see what Copia Metals & Waste has in store for the rest of 2021. We are committed to stamping out waste to landfill and recycling 100% of all metal and waste streams that we deal with. We've recently looked into waste for fuel plants and are hoping we can make further progress in our recycling mission. As a leading company within the metal and waste sector we will continue to re-evaluate our operational methods and adapt our machinery to meet the challenges of the industry."



DEMOLITION REDEFINED

- Extreme stability: Wide-track telescopic undercarriage
- Maximum flexibility: Robust
 2-part equipment can handle
 any attachment





Alfred Endl

SENNEBOGEN
Maschinenfabrik GmbH
94315 Straubing, Germany
alfred.endl@sennebogen.de





ECOMONDO

26-29 OCTOBER 2021

RIMINI EXPO CENTRE - ITALY

organized by
ITALIAN
EXHIBITION
GROUP

in collaboration with



simultaneously with



Ecomondo as a driver for a healthy, efficient and productive sustainable industry.

f 🛅 💆 🗈 ecomondo.com





When recycling materials on site, companies often require a crusher that can be fitted to excavators, skid steers, telehandlers and backhoes. In response to this demand, Xcentric has developed the XC5F crusher to provide a balance between maximum power offered by the carrier and greater input size capacity from the crusher.

Development of the new crusher was focused on a unit that could work in a variety of conditions with flow rates of 90l/min and pressures ranging between 16MPa and 24MPa. The new crusher not only achieves this but has a material input capacity of 810mm x 360mm for efficient crushing without prior material reduction. Furthermore, and thanks to the dynamics

of the movement of the mobile jaw, the crusher supports forward and reverse operation. 'Forward' mode is suitable for dry material and larger material input, whilst in 'reverse' mode better results are achieved on wet material such as asphalt, as the jaws are kept clean. The change from either mode is immediate using the joystick of the carrier, and through a combination of the working modes, high performance in each cycle may be achieved, with a resulting crushed material output range between 0/80mm.

The crusher features a new system of dampers, thus achieving an acoustic reduction, as well as a lower vibration for the carrier. These dampers are manually adjusted without the need for any type of tool. It also features direct drive of the hydraulic motor which reduces mechanisms and is free of belts. For efficient use, the crusher requires greasing after every 8h of work in six points located in the upper part of the crusher.

As with other models, replacing the jaws is very quick and easy, as the crusher opens completely to a position for this purpose. Due to the limited closing angle of the bucket in skid steer loaders, care has been taken with the structural design. All in all the end result is a hardworking crusher that offers high levels of production.



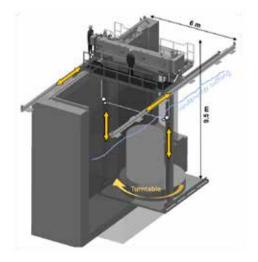
News from Siegenthaler Consulting GmbH

Siegenthaler Consulting, founded by Ernst 'Sigi' Siegenthaler in 2017 as a sole proprietorship, has now been converted into a GmbH. In PDi 1, 2018, PDi published a story about the company which provides project consulting services for complex concrete cutting applications. Since the company started in 2017, the number of assignments has grown steadily. Sigi states that demand for diamond wire application training has risen strongly. The company has also designed and delivered special diamond wire sawing machines and very useful additional devices that are used in the dismantling of nuclear power plants.

Cooperation with ATP Hydraulik AG in Switzerland has proven to be highly effective for larger and very complex diamond wire saw systems, or for remote controlled equipment carriers, providing diverse dismantling techniques in nuclear power plants. "Since 2020, a range of various special diamond wire qualities has been part of our services and assortment. We deliver high quality diamond wires that meet the highest demands. Our clients will continue to benefit from competent and project related advice," says Sigi.

Siegenthaler Consulting GmbH has updated its

website, with the new address being: www.siegenthalerconsulting.com. Also Sigi's new email address is now: sigi@siegenthaler-consulting.com.



Doppstadt company co-founder Hedwig Doppstadt passes away

Only eight weeks after the death of long term CEO Werner Doppstadt, the employees of the Doppstadt Group now mourn the loss of Hedwig Doppstadt. The company co-founder and Werner Doppstadt's wife, died on 15 June, 2021 at the age of 83. She is survived by her son Ferdinand and his family.

Together with her husband and his brother, Hedwig Doppstadt founded the family enterprise in 1965. Thanks to her cool head and her keen sense of the company's economic development, she was a driving force behind the success of Doppstadt. Today the group of enterprises has around 700 employees, and is one of the global leaders in the industry in the fields of recycling, environmental technology and resource recovery.

Trusted person

From the very beginning, the company's staff were like a family to Hedwig Doppstadt as she understood that the well-being of the company could only be achieved with a committed team. As a trusted person, she always lent an ear to her employees and supported them both in job related and in personal and family matters. With her respectful attitude, she created a strong team spirit among the staff so that employees could feel comfortable and develop.

Hedwig Doppstadt was always valued as a clever and warm hearted businesswoman by her employees, but also by business partners, customers and suppliers. Held in high esteem, she leaves behind a staff which have backed her all the way for many decades, living her values and thoughts to this day.





The mini excavator market is

Despite the effects of the worldwide pandemic, the mini excavator market is booming, calling for new models!

ew jobs are beginning and projects that have been put on hold have started up again, all meaning that new equipment is needed. Manufacturers have taken note of this and several are now launching new mini excavators. In this special feature you can read about some of the latest news.

New machines from Bobcat in operation

Hirst Brothers Contractors Ltd of York has taken delivery of new Bobcat 'E27' and 'E85' mini excavators. Jointly run by Edd and Tom Hirst, Hirst Brothers provides a comprehensive range of services, including site clearance, tree surgery, estate management, forestry, fencing and excavation. The company works throughout the UK and has a growing list of prestigious clients. Edd Hirst commented: "The new E27 and E85 are not only providing us with the muscle we need for our work but also the additional flexibility required in the areas in which we operate. The new machines allow us to gain access to and from and to work in the tight confines of many of our worksites, including the trackside contracts for Network Rail. They can also be combined with different attachments to widen the range of applications we can carry out."

Supplied by Grays Machinery Ltd, based in Bedale, the local authorised Bobcat dealer, the new E85 8.5t

excavator has been supplied with an articulated boom, an unusual feature for the UK market, where the preference is for straight boom models. The articulated boom allows the arm on the E85 to be brought closer to the machine and to reach a lot higher, providing Grays with a larger working range even in tight areas. With its bigger engine and oil pump, the E27 2.7t excavator gives also has the extra power needed for the difficult jobs, such as working with a flail mower attachment in thick brambles.

The E85 is a reduced tail swing (RTS) mini excavator powered by a Yanmar diesel engine providing



44.3kW of power at 2,100RPM. Complementing the 10% increase in power over the previous 'E80' model, the E85 excavator offers higher fuel efficiency. The bucket digging force on the E85 has also been significantly increased to 61.8kN, a 13% increase over the E80.

Vitrac Obra Pública, a company specialising in earthmoving from small excavations to large earthworks on the island of Mallorca, also carries out civil works contracts for both private developers and public administrations. Vitrac uses a modern machinery fleet and is committed to its constant renewal to offer its customers the best technology on the market. In line with this commitment, Vitrac is now the first Spanish company to use the new Bobcat remote control system for compact loaders. Supplied by ITT Compañía Maquinaria 93, the authorised Bobcat dealer for the Balearic Islands, the remote control system has been used for the first time on a brand new 'T770' compact track loader equipped with a Bobcat 'WS32' wheel saw attachment.

A spokesperson for Vitrac Obra Pública stated that when making trenches, the remote control gives better visibility of the work area and greater control of the environment. The company believes it can carry out the work more quickly with just one operator whilst experiencing fewer delays. Thanks to the external positioning of the operator who controls the loader, the attachment





FR200 GENUS!

Let us introduce new FR200 Genus. Genus is Latin for friendly and that's what FR200 Genus is. It has the same quality and performance as for past 60 years but now also with substantionally lower vibration level.









Call our distributor for more info, demonstrations, and trade in offers for old units. You find them at **www.vonarx.com distributor page**.

PDi special feature



and the entire environment, the quality of the finish is improved as well as the safety of the works. The remote control is said to be very simple to install on the loader, which means that the operator does not waste any time. The company is reported to be 'very pleased with the remote control system' which has given it a new way of working and greater flexibility. The combination of the T770 compact loader, the wheel saw and the Bobcat remote control provides increased stability, safety and a panoramic view that it believes it could not get with other equipment. In addition, the company is also now able to undertake pipelining in public works.

The dealer for the Bobcat range in the Czech Republic, Bobcat CZ a.s., has announced it has received a new order comprising of 71 mini excavators and loaders from construction materials company, Stavebniny DEK a.s., which currently has a fleet of over 200 Bobcat machines available for hire through its DEK Rental business. Taken together with other orders in this sector, Bobcat CZ has supplied more than half of all machines for rental in the Czech Republic and is a leader in this segment of the market.

Three new machines from Caterpillar

Designed to boost operating efficiency, servicing ease and operator comfort, the new Cat '302.7 CR', '303 CR' and '303.5 CR' hydraulic mini excavators have a host of new features for the 2.7t to 3.5t class. Built on the 'Next Generation' platform that offers consistent operator experience through the 1.5t to 10t range, each new model features stick steer, cruise control, operator adjustable settings, and tilt up canopy or cab as standard equipment. Expanded use of common parts throughout the line, plus the sturdy exterior design, help reduce parts inventory investment and lower repair costs. Daily maintenance checks are quickly made from ground level through side doors, while the tilt up cab design offers access to components for servicing. Increased service intervals mean these excavators spend more time on the job and less time in the workshop. Combined, these features are said to lower total ownership costs by up to 5% compared to previous models.

At the same time, design enhancements for the new models are said to deliver up to 10% more performance in travel and trenching. Hydraulic system upgrades improve lifting performance and cycle times, while customisable operator settings improve efficiency. The turbocharged Cat 'C1.1' turbo engine powers the 302.7 CR and 303 CR models, while the Cat 'C1.7' anchors



help to conserve fuel usage at the site for more affordable operation.

News from Doosan

Kings Heath Demolition Ltd, based Worcestershire in the UK, has purchased new Doosan mini and crawler excavators from Murley Construction, the local Doosan dealer. This includes the company's first three mini excavators, Doosan 'DX17Z', 'DX27Z' and 'DX63-3' models. Tony Nicholls, senior contracts manager at Kings Heath Demolition, said: "With the new Doosan DX17Z, DX27Z and DX63-3, we are adding mini excavators to our fleet for the first time. These machines meet the increasing demand in the market for indoor demolition and refurbishment work, involving work in confined spaces and basements. We are beginning to see an uptick in this type of project, including the conversion of existing multi storey office buildings into new apartments in urban locations and the new Doosan mini excavators are perfect for this type of work."

The first new Doosan crawler excavator purchased by Kings Heath Demolition was a 'DX140LC-5' 14.4t model. This machine, and the 'DX225LC-5' models subsequently added, have so impressed the company's drivers that Kings Heath Demolition switched brands and has only purchased Doosan in the last three to four years. Tony Nicholls added: "When you add how much our drivers like the Doosan machines to the impeccable service offered by Murley Construction, it has been a simple decision to keep adding more Doosan excavators. We work throughout Great Britain, undertaking contracts in England, Scotland and Wales, so reliable and high performing equipment is essential for our work, supported by the best aftermarket back up on the market."

New from JCB

JCB is launching a 3.5t zero tail swing compact excavator and a new 3.6t conventional model, expanding its 'Next Generation' line to meet customer demand. Features include an engine designed for global markets with a new hydraulic system, a larger ROPS cab/canopy



with new instrumentation and an improved dig end geometry with 40mm bucket pins and 500h greasing. It also features an easy to clean 'H-frame' undercarriage design with auto kick down motors and a re-profiled dozer blade for increased productivity. While the new '35Z-1' zero tail swing model is a replacement for the previous generation '8035ZTS', the conventional rear end '36C-1' is a totally new development. The zero tail swing model is ideal for working in confined areas, providing greater protection as the counterweight rotates within the width of the machine, whilst the 36C-1 provides increased productivity with more reach, stability and lifting performance.

Komatsu

On the occasion of its 100th anniversary in May, Komatsu Ltd. announced a fully electric (non-hydraulic drive) and exclusively remote controlled mini excavator powered by lithium ion battery as its next generation concept machine. Designed to lay the foundations for commercialisation for fully electric construction equipment in the future, the concept machine for the fully electric 3t class has a bucket capacity of 0.09m3, and is based on Komatsu's accumulated technological expertise derived from electric forklifts and mini excavators. It also incorporates new technologies, such as lithium ion batteries and electric cylinders which utilise no hydraulics. Thanks to electric power, it generates no exhaust gas, noise or heat, and offers stress free operation. In addition to improved energy efficiency, it also features 'maintenance free operation' as there are no hydraulics.

As the concept machine requires no operator on board, Komatsu has achieved totally new concepts related to vehicle designs and performance. A vehicle controller and operational device are connected via wireless LAN, resulting in no need to install facilities or create an environment which are required in the conventional remote control system, thus enabling remote control operations in any work environment. With respect to the operational devices of the vehicle, the operator can select the one preferred. Furthermore, it offers a new workstyle of operating with no boarding required which thereby reduces operator fatigue for enhanced workplace productivity. Thanks to electrifica-

tion and remote control, this machine is said to provide 'stress free' operation, as the machine is easier to work in confined, dangerous sites, such as for indoor demolition and rescue work.

In 2020, Komatsulaunched the 'PC30E-5' mini excavators in Japan, and plans to introduce them following equipping with the lithium ion battery system used in the concept machine for Europe in 2022. Komatsu is working to not only accelerate the speed of commercialising construction equipment with little environmental impact, but also further anchor them into the future



Three new Takeuchi excavators to take productivity and comfort to the next level

Over the past few decades, as urban job sites have become smaller and more restricted, the market for compact excavators has grown as they can make quick work of numerous tasks that contractors used to perform by hand or with a less efficient machine. This development, saw a year after its foundation, Takeuchi introduce the world's first 360° full turn compact excavator. While the innovative machine was a revolutionary breakthrough, it took some time for contractors to adopt it as a 'must have' tool on their jobsites.

"People initially saw the compact excavator as a niche machine," says Jeff Stewart, president of Takeuchi US. "The company worked for many years to enhance the mini excavator and make it useful for multiple applications. That's when the rental industry started to embrace the mini excavator, and its market began to really expand." Over the past 40 years, compact excavators have evolved from simple digging machines to tool carriers that are useful for demolition, loading, land management, utility work and much more. Features like multiple hydraulic circuits now make it possible to outfit compact excavators with a wide range of attachments. That enhanced versatility can help business owners overcome tight budgets and an ongoing labour shortage.

"Compact excavators with multiple hydraulic circuits, including high flow, can be extremely productive," says Keith Kramlich, national product and training manager for Takeuchi US. "Our excavator models from 5.5t and up feature 1st, 2nd and 3rd auxiliary circuits as standard equipment that enable operators to run attachments like augers, mowers, mulchers and breakers. The second circuit can serve as a dedicated thumb circuit or provide an additional function like rotation for a tilt rotator coupler. Finally, the 3rd auxiliary circuit lets operators easily integrate a hydraulic pin grabber coupler, allowing them to switch out attachments from the safety and comfort of their cabs."

Compact excavator cabs have come a long way in terms of operator comfort. Operators who are comfortable in their cabs can remain at the controls longer, experience less fatigue, use the machine more safely and remain highly productive throughout their shifts. To further improve operator comfort and productivity, Takeuchi is outfitting its compact excavators with roomier cabs featuring large, multifunction colour moni-

tors. "With these monitors, operators can see their machine's health and get more done without having to step out of the cab," Kramlich says. "In fact, depending on the machine model, they can now set up multiple attachment presets, adjust flow rates — and in some cases, pressure settings — all from the comfort of their seats."

New machines for a new decade

Takeuchi launched new machines in 2020, despite the global pandemic, with three new compact excavators – 'TB225', 'TB257FR' and 'TB370' – being introduced. "We talked to end users and Takeuchi dealers and reviewed the state of the market as a whole before introducing these new machines," Kramlich says. When designing the new machines, Takeuchi included the aforementioned multiple hydraulic circuits, the advanced hydraulic systems found on the TB370 and TB290', more comfortable cabs and 'Takeuchi Fleet Management' (TFM) telematics system for remote monitoring.

The 5,900kg TB257FR is designed for demolition, general contractors, pool contractors, municipal use, landscaping and road/bridge work. The 'FR' in the machine's name stands for 'front and rear' or 'full rotation' capability. That means the TB257FR can almost rotate within the width of its track frame with the boom fully stowed for an exceptionally small footprint. It can also work within areas where there's just one way in and out, like a fenced yard or an alley. A side to side (STS) offset boom coupled with a tight tail swing offers excellent visibility



to the work equipment and enables it to rotate fully with very little overhang. The TB257FR features three auxiliary circuits and a boom holding valve with an overload alarm.

The largest new Takeuchi machine, the TB370, can also handle whatever a contractor needs in a compact excavator. As the first model of Takeuchi's new generation line up, it's been upgraded with state of the art technology and a completely redesigned automotive styled interior with intuitive user operation. It also includes three auxiliary circuits, as well as a closed centre load sensing hydraulic system that's ideal for running hydraulically driven attachments. The tilt forward cabin has been totally redesigned with a 20.32cm colour LCD multifunction touchscreen display, 'jog dial' and one touch controls and a larger floor area for enhanced operator comfort.

Future forward

Covid-19 will have lasting economic and sociological impacts, and it will influence how manufacturers like Takeuchi approach new machine introductions in the future. "In my opinion, we're seeing what used to be years' worth of machine advancements being developed far more quickly," says Kramlich. "Manufacturers are trying to increase machine productivity to help contractors get more done since it's been tougher than ever to find dependable labour since Covid. Owner operators are looking for more flexible machines that they can easily monitor and product support that they can depend on."

Takeuchi's Stewart says he feels that customers want to be able to do more with smaller, more compact machines like those his company manufactures. That's why Takeuchi is developing better tool carriers for the growing compact equipment market. He also believes that 'greener' machines, like those that use battery power instead of fuel, will also be in high demand.

"Our company has always focused on providing a specific type of compact machine," Stewart says. "That has allowed us to communicate with our customer base and incorporate the features they want most. Our plan is to continue providing the best possible quality and support, and we'll continue talking with our customers to ensure we're manufacturing machines that truly help them do their jobs better, faster and more easily."



News from Sunward

As a result of its strategy of listening to dealers and responding to market needs, Sunward Europe launched the new 'SWE 90UF' during the last quarter of 2020. The SWE 90UF is the company's first short tail 9t excavator which has been developed especially for the European market, where contractors appreciate a compact machine that delivers heavy duty performance. The excavator features what the company says are excellent levels of performance, comfortable and safe operation, and convenient maintenance. A product of the company's 'innovative DNA', it creates value for customers as well as aiming to improve their quality of life.

Sunward states that it never compromises on reliability, so all key components come from the world's major suppliers. These include a Yanmar Stage V engine and the Bosch 'RexRoth' hydraulic system. Aimed to deliver reliability and enhanced performance, Sunward augments these by providing what the company says is the shortest swing radius (1,430mm) on the market. With a digging force of 38kN (arm) and almost 63.5kN (bucket), the SWE 90UF is said by the company to be the equal to or even better than, 9t competitor machines. Furthermore its long reach digging capacity is almost 7.5m.

Three new models from Takeushi

Takeuchi continued to roll out new machines in 2020 thanks to steady demand for both mini and compact excavators - even during a global pandemic. After a significant investment in time and resources, three new compact excavators - the 'TB225', 'TB257FR' and 'TB370' - joined the Takeuchi family last year. "We talked to end users and Takeuchi dealers and reviewed the state of the market as a whole before introducing these new machines," Keith Kramlich, national product and training manager says. "We heard a lot of excellent ideas, and from there, we narrowed down a list of priority features, focusing mainly on what changes would bring our customers the biggest benefits." When designing the new machines, Takeuchi included multiple hydraulic circuits, advanced hydraulic systems, more comfortable cabs and 'Takeuchi Fleet Management' (TFM), a telematics system that makes it possible for customers to manage their machines remotely.

Volvo ECR25 in operation

A second Volvo CE electric machine, the 'ECR25 Electric' is being used by B. Meier Abbruch & Tiefbau AG, a German demolition and civil engineering firm. The compact excavator, which has been branded in the company's signature red colour, is being used to prepare



sites for construction. Company owner, Bruno Meier, says: "The responsibility for looking after our environment falls on everyone. As our organisation has grown, we wanted to look at alternative machines that don't rely on diesel or petrol. The ECR25 Electric is our first foray into the world of electric machines. We are using the excavator in built up areas and complex spaces, such as near hospitals and schools, where its emission free and silent operation really comes into its own."

While electric machines require less servicing than their traditional counterparts, they do still need servicing, which is where the specialist expertise of dealership Robert Aebi AG comes in. The company is providing full servicing and specialist after sales support for customers of the electric machines. As more countries and organisations look to tackle their own carbon footprints, the market for electric machines is set to grow. With the right government incentives and regulations demanding low emission, low noise machines, along with the specialist support provided by local firms, the future for electric equipment looks bright.



New mini excavators from Wacker Neuson

New tracked mini excavators in the 4t or 5t class, 'ET42 and EZ50' (the 'Z' standing for zero tail) have been launched that expands the Wacker Neuson portfolio, which ranges from 800kg to 15t excavators. The new models are suitable for a wide variety of applications, aiming to provide high performance, compact dimensions and comfortable operation, with their powerful drive allowing customers to deploy the machines even for the most demanding tasks. Wide opening covers make access to all service points easier, which results in less downtime and thus deliver cost savings. The 'generously' dimensioned radiators and efficient hydraulic system make it possible to use the excavators for applications with very high ambient temperatures of up to 45° without suffering a loss of performance.

Both excavators are said by the company to offer impressive high lifting and digging power for quick work cycles and the three point kinematics provide more breakout force, insertion depth and dumping height. This provides tangible benefits as thanks to the high breakout force, even applications on very rocky or stony ground, for example, are no problem.

Wacker Neuson has also expanded its zero emission range to include the electric mini excavator 'EZ17e' for inner city construction work, with the model able to be operated fully emission free and almost free of noise. Due to its specially developed battery technology, flexible charge management and efficiency output, the compact excavator can be used in as many ways as a conventional model of the same class.

The company states that it is thinking in terms of holistic solutions with its zero emission series. "In 2015, we put the first battery powered rammer on the market and from the start, designed a sustainable system for our customers' purposes. Today, the modular battery can be used in seven units," says Alexander Greschner, sales director of the Wacker Neuson Group. "With the mini excavator EZ17e, we have expanded our zero emission series. With more than twelve machines, an entire inner city construction site can be operated completely free of



exhaust emissions without limitations in the sequence of operations or in performance, not least because of the consistently retained zero tail design. That the trend is heading in this direction is also shown in the increasingly stricter specifications for environment and user protection on the national and international levels. Further, various cities are thinking about requirements for pollutant reduction, particularly in the area of the inner cities, and are beginning to support the application of low emission machines."

Three new mini excavators from Yanmar

Yanmar Compact Equipment EMEA has announced the launch of three brand new mini excavators, each

delivering with what the company claims are class leading performance and state of the art operator technologies. Designed from the ground up, the innovative trio comprises the 'SV15VT', 'SV17 VT' and 'SV19 VT'. All are said to be robust, reliable and versatile, delivering impressive outputs in a highly compact package. They are said to be perfect for urban jobsites where space comes at a premium. Engineered to set what the company claims are the new standards in safety, capability and efficiency, the new range will be available to order through approved dealers nationwide from May 2021.

The range has also been designed to excel in even the toughest environments, with power and performance on hand. By adopting a Stage V compliant mechanically controlled three cylinder indirect injection engine from Yanmar's globally acclaimed 'TNV' series the new models aim to combine impressive efficiencies with low fuel consumption.

Wacker Neuson 'EZ17e' zero emission excavator in breaking application

A battery powered zero tail EZ17e mini excavator, equipped with a hydraulic breaker, has been seen to be an ideal solution for indoor demolition work, as it can be used in environments where emissions have to be kept to a minimum, such as fund in urban areas.

For many prospective users, the first question when it comes to battery powered equipment is how long is it possible to work with one fully charged battery. Wacker Neuson's latest development is able to work a whole workday without intermittent charging, as the EZ17e mini excavator has an integrated lithium ion battery which can support a full shift independently from a power source. Intermittent charging can easily prolong the autonomy and in case of stationary applications, the machine can even be charged during working. The EZ17e supports a broad variety of hydraulic attachments including a hydraulic breaker that provides both high productivity and energy efficiency and is designed for maximum durability.

Intelligent battery management

At all times the operator can see the current charge level of the battery and the remaining time the machine can continue to work as based on the power demand of the current operation, with the time left calculated and continuously shown in the display. A full charge can be achieved at a household outlet (110V to 230V) or by quick charging with high voltage current (415V) in only four hours. High quality lithium ion battery technology has been in use by Wacker Neuson for several years and has proved to be especially durable. It ensures that all hydraulic functions have the performance of a conventional

model of the same class. Thus, the excavator can work with a hydraulic breaker without any limitations.

"With the EZ17e, we have implemented a zero tail concept with generous performance dimensions. With the efficient, intuitive and emission free excavator, we satisfy the high standards of professionals who work in particularly confined space conditions, as is usual in interior demolition, for example," says Stefan Bogner, managing director of Wacker Neuson Linz GmbH, the research and development centre for excavators within the Wacker Neuson Group. The model has also been designed to deliver easy handling, minimised maintenance and service costs as well as lower energy costs in operation. Furthermore the CO2 emissions of the zero emission products



have been certified by TÜV Austria, with 81% of CO2 emissions of the EZ17e being able to be saved over the entire product lifetime, including battery production and energy generation (based on an EU mix), compared to the conventional product in the same class, the model 'EZ17'.

Flexible in application, easy to operate

The new mini excavator is a zero tail model without rear overhang. This makes it the ideal choice for demolition work in confined spaces and indoor projects. This is precisely the type of environment where contractors need powerful, compact machines that can be operated without producing any emissions. An intuitive operating concept makes it easy for the operator to keep all functions within view. The excavator is equipped with an intuitive 'jog dial system', with all important information, for example the charge level of the battery, being clearly shown on the full colour display.

Already a reality

The Wacker Neuson zero emission series currently includes three battery powered rammers and three battery powered vibratory plates, a dual power mini excavator that can be operated with an electro hydraulic drive unit instead of the diesel engine, an electric mini excavator, an electric wheel loader, electric track and wheel dumpers and an internal vibrator system for concrete consolidation. With this wide ranging portfolio, a typical inner city construction site can be operated free from local emissions and at low noise levels.

MEETVIKING®

THE NEWEST SCRAPER FROM NATIONAL FLOORING EQUIPMENT

PATENTED DUAL LIFT TECHNOLOGY CLIMATE CONTROLLED CAB EXTENSIVE SAFETY LIGHTING

ROPS AND FOPS CERTIFIED CAB 49.5 HP TURBO DIESEL MOTOR



NATIONALEQUIPMENTDIRECT.COM | 800.245.0267



AUSA RETURNS TO A MAJOR TRADE FAIR FOR THE FIRST TIME SINCE THE PANDEMIC BEGAN

Since the start of the global pandemic, and thanks to the progress made in many regions, the first large scale live trade events are now starting to be held. One of the first construction industry events was World of Concrete, which took place from 8 to 10 June in Las Vegas, with Ausa exhibiting its range of compact dumpers and all-terrain forklifts.

"We were really excited to be back at a big event like World of Concrete. After an extremely tough year for everyone, being able to return to Las Vegas with our machines and come face to face with our customers and everyone present was exciting. You can tell how eager everyone is to get back to normality and finally put this pandemic behind us," remarked Ignasi Moner, CEO of Ausa US Corp.

"We are noticing a huge demand for our dumpers, a product that is not widely used in the construction industry in the United States, but at Ausa we have been backing them, explaining all of the merits of these machines to potential customers. These efforts are reaping rewards and we



provide customers with the best solutions for their daily operations. We have also managed to establish a strong network of dealers throughout the country who provide great commercial support and aftersales services," added Moner.

During the trade fair, Ausa exhibited some of its most popular models

During the trade fair, Ausa exhibited some of its most popular models that are ideal for the concrete industry. "From our most compact range of dumpers, we chose the 'D150AHA' and 'D150AHG' models. They each have a 1,496kg payload and comfortable hydrostatic transmission and suitable for minor construction work and work in difficult to reach areas. In the mid-range, the 'D350AHG' has a great payload to power ratio. Finally, the 'D1000APG'

dumper with an enclosed cab and a 9,979kg payload is one of the brand's highest payload models and suitable for major construction work.

"As for our range of all-terrain forklifts, Ausa exhibited the 'C251H' model with a 2,267kg payload. A technologically advanced machine with a digital screen displaying all of the real time information and safety warnings making it suitable for enclosed spaces thanks to its manoeuvrability and with excellent all-terrain capability," concluded Moner.



SWEDISH BOBCAT DEALER SUPPORTS CHILD CANCER PATIENTS

Minutdagen in cooperation with Aja-BajaCancer foundation has teamed up with Bobcat Sverige AB, the exclusive dealer for the Bobcat range in Sweden, to auction off a unique Bobcat machine decorated with children's drawings. All proceeds from the auction will go to AjaBajaCancer and the production of Minutdagen (Minuteday) – a summer event for children with cancer.

The Minutdagen event, planned for 21 August 2021, gives children with cancer the opportunity to experience something exciting and help the entire family forget their struggles for a day. This year promises an exciting day filled with flying airplanes and helicopters, good food, live music and various other exciting experiences and activities. "Minutdagen was created because I felt an urge to do something here and now. I wanted to create memories and extend a helping hand to those who need it the most," says Johan Lagerqvist, creator and initiator for Minutdagen. Johan works full time as a pilot and saw an opportunity to combine his passion for flying with helping struggling children. "We had an idea that families struggling with cancer should be granted some time and space to pause, and catch their breath. All families and children deserve to smile, laugh and be happy if only for a minute, which was why the Minutdagen was created."

"The positive feedback we have been getting from both big and small participants of Minutdagen is incredible and we are really touched by the support. We are thrilled by the prospect of being able to make this event even more amazing thanks to the generosity of Bobcat Sverige," says Ellinor Stattin from AjaBajaCancer, a non-profit association controlled by the Swedish Fundraising Control which was started by two mothers of children with cancer.

Bobcat Sverige has donated a new Bobcat L28 small articulated loader which will be auctioned off, and has given it a 'special' new coat of paint for the occasion. "We decided to support AjaBajaCancer because of their outstanding commitment to the children and such a lovely event. This year, we decided to make it a bit special by putting an entire machine up for auction and customising it with cute art made by children. The winner will get a truly one of a kind piece of equipment made even more exclusive by the fact that you can't even buy this machine yet!" says Marcus Andersson, marketing manager at Bobcat Sverige AB.

The auction is scheduled to start on 15 June via the Klaravik platform at http://bit.ly/minutdagen and finish on 21 June. You can find out more about the AjaBajaCancer foundation at https://ajabajacancer.se and watch the campaign video at https://youtu.be/v3eeUJsgw6w



Zero hours on a J.J. Scheckel Custom, Ultra High Reach Demolition Conversion. 96'6" Total reach, Quick attach boom and lines, Hydraulic tilt cab, Extra counterweight, Highest quality package. Optional Cat MP324 multi processor tool and jaw sets at additional price if needed. The stock boom, stick, and bucket are also available if needed at additional price. **\$458,000**

call: 563-872-4112 | email: sales@jjscheckel.com | www. jjscheckel.com



SMALLER IN SIZE, BUT BIGGER IN HOPES,

In normal circumstances, a World of Concrete show, approximately half its usual size, would be cause for concern. Organisers report the 2021 edition attracted more than 650 exhibitors and 'tens of thousands of industry professionals' visiting. By comparison, the official numbers for 2020's show, held just weeks before Conexpo, tallied twice as many exhibitors and 54,000 registrants. But after more than a year of life being anything but normal, the fact that World of Concrete was held at all was cause for celebration.

oving World of Concrete from its traditional January calendar slot in hopes of eased pandemic conditions proved to be a winning bet for the show's organisers, as the 8 to 10 June timeframe arrived just days after Las Vegas lifted restrictions on building capacity and large gatherings. Even the summertime desert sun accommodated the schedule shift, providing participants with a week of high temperatures of 'only' around 35° C.

To be sure, there were differences, with indoor booths being limited to the familiar confines of the Las Vegas Convention Center's North Hall and the recently completed West Hall expansion. The substantially reduced number of outdoor demonstrations were deployed adjacent to the West Hall, as the traditionally bustling Silver Lot was given over to the event's masonry competitions. International attendees were far fewer in number as well, evidencing the varying levels of coronavirus spread and vaccination levels worldwide.

Big show or not, most everyone at World of Connormality. Many attendees likened the environment to a been years when there were so many people, it was hard to talk to everyone or develop relationships," observed junket to Las Vegas, he noted: "We have more business owners and people who call the shots and make decisions."

crete seemed just happy to be there and savour a sense of 'Conexpo year', which suited them just fine. "There have Lissmac national sales manager Mitch Scott, who was attending his 25th World of Concrete. Rather than being besieged with contractor employees enjoying an off-season

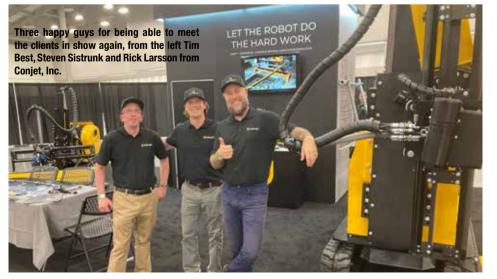


Though many companies nevertheless opted to stay home, Scott stated, "We can't afford not to be here," citing the need to see customers and demonstrate products such as a prototype 42.5kW front and rear pivot floor saws equipped with a Hatz turbodiesel engine.

Scott's thoughts were shared by other companies. "After an extremely tough year for everyone, being able to return to Las Vegas with our machines and come face to face with our customers and everyone present was exciting," remarked Ignasi Moner, CEO of Ausa US Corp., which showed its compact and mid-range range of dumpers and all terrain forklifts. "You can tell how eager everyone is to get back to normality and finally put this pandemic behind us," he added. And even a relatively small crowd was enough to impress newcomers like Rob May, sales director for construction waste recycling specialist Senya Tech, which is introducing a 'micro crusher' material processing line to the North American market. "The number of visitors was unexpected, but great for us, because we're trying to get our name out," May said.

So much to see

A smaller World of Concrete didn't diminish the show's standing as a setting for new products. Husqvarna gave



as rare summertime World of Concrete sets the stage for post pandemic construction market





The new Hilti Jailbot robot.



The new battery driven power cutter K1 PACE from Husqvarna released at WOC 2021.



visitors a first look at its 'K1' cut off saw - the first product powered by the company's new 'PACE' battery system. Weighing approximately the same as the 10.1kg 'K770' gas saw, the K1 uses specially designed 300mm and 350mm diamond blades optimised for battery operation. In the event of a pinch or kickback, the saw's 'X-Halt' brake function stops blade rotation in a fraction of a second for enhanced safety. A Husqvarna spokesperson said the K1's production rates and other specifications are still being refined in advance of the saw's official release later this year. Husqvarna had other battery equipment on show, including the 'DM 540i' core drill and 'VE 100i' vacuum.

Another saw innovation on display was iQ's '914' 350mm dry cut power cutter, an existing model now featuring a fully integrated dust collector that the com-











pany says captures up to 90% of dust at the source. The integrated vacuum sucks dust through a retractable blade guard for a capacity of up to 2.2kg. The saw can also be connected to the 'iQ426 HEPA dust extractor' for additional dust collection capacity. The 914 features an 81cc German engineered two stroke high performance engine and an anti-vibration system with five steel springs and a rubber coated handle for fatigue free operation. The motor offers a choke free easy start system, and a one 'push stop-system' that stops the engine and immediately prepares it for renewed operation. An electronically controlled pump ensures the correct fuel-oil mixture.

Speaking of the iQ426 dust extractor, the model features a four stage filtering system and 5.38m3/min of power in a rugged plastic casing that's more suitable for construction settings than many metal framed models. "We design our own products because we're tool users ourselves," explains iQ co-founder and CEO Paul Guth. "We know what we want, and what others want."

One concern unchanged by the pandemic is the ever shrinking pool of construction labour. Hilti offered some answers with demonstrations of its 'Jaibot', a semi-autonomous cordless mobile robot that works

using building information modelling (BIM) data to drill 4.8mm to 16mm ceiling holes for mechanical, electrical and plumbing systems at precise locations up to 5m high. Another Hilti development for overhead work is its 'EXO-O1' wearable exoskeleton, a human augmentation device developed with global prosthetics and orthotics manufacturer Ottobock. Wearing an EXO-O1 eliminates strain and fatigue that arises from performing tasks at the shoulder level and above, yet doesn't constrain or interfere with a worker's normal movements.

The show was also the first chance many contractors had to see of the fourth generation of Hilti's popular 'T70 ATC/AVR' combination hammer, which was introduced last autumn. Hilti says the upgraded tool incorporates electronic based efficiencies that will help users drill up to 40% faster into reinforced concrete and demolish more concrete than the competing products in its class. The tool is also equipped with Hilti's 'Active Vibration Reduction' technology that makes it less

A similar theme was found at the Makinex booth, where the Australian construction products manufacturer's North American representatives displayed the new 'Lift Assist LA90-350'. The pneumatic device is specifically designed to lift 27kg to 41kg jackhammers out of holes, taking the strain off operators while also providing greater control and precision. Makinex also displayed its upgraded 23kW, 480V 'power box', which provides a seamless range of mobile power with upgraded wheels for improved jobsite mobility.

The best - or at least better - is yet to come

As World of Concrete's abbreviated week drew to a close, talk turned from how well the event lived up to its limited expectations to what the first months of the (hopefully for good) post pandemic market may hold, including prospects for World of Concrete's 2022 edition, now just six months away. "It was definitely odd having the show in June in what is the busiest time of the year for many contractors," observed Jason Root, sales manager for Syntec Diamond Tools. "The construction market seems like it will continue to thrive through the end of this year. We plan to exhibit in 2022 and expect a much better turnout."



Our story started 40 years ago with the family company Ermator and a vacuum cleaner that could handle concrete dust. It is still our family mission - to develop, manufacture and sell effective products with unique solutions for Professional Dust Management.

Read more about us and how SILA products can enhance your work.

Don't hesitate to contact us if you want to sell

Professional Dust Management products.





Saxagårdsvägen 5, 362 51 Väckelsång, Sweden
Phone: +46 470 211 00 • info@silaproducts.com • www.silaproducts.com



GOLDHOFER RECEIVES CHAMPION 2021' AWARD

For the fourth time, panellists from the University of St. Gallen and the Academy of German Global Market Leaders (Schwäbisch-Hall) have confirmed the leading role played by Goldhofer AG in the field of heavy haulage and oversized cargo transportation vehicles. "We are absolutely delighted with this distinction, especially as it reflects the worldwide customer satisfaction deriving from the know-how, experience and above all enthusiastic commitment of our employees. That is the key to market leadership. My thanks and those of my colleagues go to all Goldhofer employees around the world," says Lothar Holder, CEO at Goldhofer AG.

This year Goldhofer again made its mark by outperforming with regard to the relevant criteria in the field of heavy haulage and oversized cargo transportation vehicles. In 2019, Goldhofer's 751 employees generated net sales worth over €213M, with exports accounting for 83% of the total, a reflection of the fact that the company, which was founded in 1705, is represented on all six continents of the world. The company is one of the oldest German companies in the Global Market Leader Index, with Goldhofer AG being wholly owned by the Memmingen based Alois Goldhofer Foundation.

The Global Market Leaders is an annual list of global market leaders from Germany based on an objective and transparent selection process. Data is collected from publicly accessible sources and, based on strict criteria, the German companies listed occupy a leading global position in their respective market segments.





Sila - Professional Dust Management

Sila AB has a long family history in the construction industry. It all started in the 70's with the company Ermator and a vacuum cleaner that could handle concrete dust. Eric Lundin and his sons Mats and Torbjörn introduced many products, functions and methods for professional dust management that are today industry standards. Sila AB is run by Mats and Andreas (son of Torbjörn) with a focus on finding new effective products and solutions for the construction and demolition industry, with Silas air cleaner / air scrubber being manufactured in Sweden.

Sila's air cleaner for the construction industry

Sila's air cleaners are used to create negative pressure and circulation. This protects contractors from airborne dust that may contain, for example, quartz and other harmful particles. The air cleaner are designed with contractors' safety and everyday life in focus, with the air cleaners' 'H13-class' HEPA filter being screwed on, with the equipment being designed according to a two layer principle. The coarse filter hatch protects the HEPA filter while the hatch makes the coarse filter change effective. Additionally, Sila's patented 'Decontamination Frame' saves time and money when building temporary work zones. All Sila air cleaners are delivered with the H13 filter as standard, with an optional upgrade to 'H14' filter also being available.

'Sila 600A3' - 'best in test' according to Construction Worker magazine

According to Sila, the Sila 600A3 is probably the smartest designed air cleaner on the market. To take up as little space as possible in a doorway, it is 'built on the height' and also has a large filter surface to be as efficient as possible. Furthermore, Construction Worker magazine deemed it to be the best performing in tests. Likewise, the Sila '1000A3' is an air cleaner for really tough jobs, being ideal for larger demolition work. It utilises a large HEPA filter surface in combination with a high flow making it able to work in large rooms with few filter changes, proving to be a powerful air cleaner that is easy to move where and when it is required.

Being designed to be a flexible air cleaner for large spaces, the Sila 2000A3 has a capacity of 2,000m3/h, which means that it can handle very large rooms, 80 -140 m². The HEPA filter has a filter area of 13.4 m², which makes the Sila 2000A3 highly cost effective. It is also equipped with large wheels and a height adjustable handle, so it can be easily transported, with the roll bar protecting the engine and electronics. It also has a step less potentiometer which allows the user to regulate the flow to provide ideal negative pressure.

The Sila '5000A3' has a capacity of 4,000m3/h and runs on one phase power. With 2 x 500W it covers very large areas up to 160m² or more, and is equipped with two coarse filter hatches that make the coarse filter change quick and easy while protecting the HEPA filter from shocks and impacts. Its two H13 filters, set vertically, totalling 26.86 m², make the Sila 5000A3 very efficient and inexpensive to operate. It also has a step less potentiometer to regulate the flow for the ideal negative pressure, whilst the upper filter is always less loaded with dust, which prolongs the capacity of the air cleaner.

Decontamination Frame - a patented accessory

A design detail that distinguishes Sila's products from others on the market is the Decontamination Frame. This is a simple but smart - and patented - accessory that Sila says that has impressed its customers. It has been developed to deal with the requirements of companies working in decontamination, demolition and renovation, who are more than aware how much work is involved in building temporary plastic walls to prevent dust from spreading to other areas. The Decontamination Frame makes this work significantly safer, cheaper and less time consuming.

The Decontamination frame is placed on the temporary plastic wall against the air purifier with the help of built in magnets. The contractor then cuts off the plastic that lies against the coarse filter, which provides a solution that requires no taping and no wasting of time. When the job is completed, the user simply attaches a new piece of plastic and places it against the coarse filter hatch frame on the air cleaner. Clamp the plastic with the Removal Frame, and the contractor has instant transport protection.

www.silaproducts.com



"A customer can have a shot blaster painted any color he wants, as long as it's blue."

Loosely according to Henry Ford (1863 - 1947)









'PLAN D' ADOPTED - DEMCON MOVES TO 24 TO 25 NOVEMBER 2022

The pandemic has been a great challenge for everyone, not least those who arrange trade shows. The Swedish show, DEMCON, which was originally scheduled for September 2020, has been forced to change dates several times. Now the organiser has adopted its plan D and moved the show from 30 September to 1 October 2021, to 24 to 25 November, 2022.

This is the date that applies to DEMCON now, 24 to 25 November 2022, at Scandic Infracity in Stockholm. No more moving (dates) unless a new pandemic appears," explained DEMCON's project manager, Jan Hermansson.

Uncertainty

Despite the fact that the restrictions are slowly easing with the spread of infection declining and the vaccination programmes well under way, it is felt by DEM-CON's organiser that there is too much uncertainty for the show to be held in 2021. "After all, arranging a trade show like DEMCON requires a lot of preparation both for the exhibitors and for us as organisers. Delivery times have also been extended considerably due to the pandemic. With the uncertainty that still prevails, we simply do not have time to wait until August this year to decide whether the fair will take place this year or not. Many visitors will feel quite insecure going to a trade show this year with lots of people crowded in even if we follow special restrictions for trade shows. A show this year would be a bit of a 'half-mess' that would cost more than it tasted," says Jan Hermansson. It should also not be forgotten that the Swedish government's temporary pandemic law extends until 30 September this year, i.e. until the first day of the planned trade show.

Must take place after bauma Munich

Moving DEMCON to the spring of 2022 was not an option for the organiser. Other Swedish building and construction shows are already planned (Nordbygg, Maskinexpo, Svenska Maskinmässan, Load Up North and Entreprenad Live). Squeezing in DEMCON in the spring would thus not be sustainable. Furthermore, the main reason why DEMCON will take place in November 2022 is that the bauma 2022 trade fair has been moved from April to October 2022. "A number of new products are introduced at bauma and it would then be wrong to run DEMCON six months before. DEMCON will undoubtedly work as well as an indoor trade fair, but it will of course be possible to demonstrate machines outdoors if desired," says Hermansson. DEMCON's website has now been updated with the new date and it is possible to register for the fair in November 2022. "We would like the exhibitors who intend to exhibit in November 2022 to book as soon as possible or confirm their participation. Those who have already chosen a stand location will keep it if they let us know that they want to exhibit, but we need to get confirmation," says Hermansson.

Mini show in 2021

According to tradition, the trade association Byggnadsberedning (BFB), which includes the Swedish Concrete Sawing & Drilling Association and the Swedish Demolition and Remediation Association, usually holds their autumn meeting at DEMCON. BFB wants to continue investing in a physical autumn meeting this year. BFB has stated that the dates of 30 September or 1 October at Scandic Infracity are preferred and will make a formal decision a little later this summer. During this gathering it is usual for there to be a physical meeting place for contractors and suppliers. DEMCON's organiser has come up with a proposal to arrange a mini show in connection with the autumn meeting with all stands approximately the same size.

It will be a fairly simple trade fair of sorts, with a completely different cost structure to the large format DEMCON show. The mini show is seen as more of a way for businesses in the industries to meet and interact. BFB has around 150 member companies, so a fairly large group would be gathering for the autumn meeting, but for the mini show to take place restrictions must be further eased before a final decision can be made. The mini show will be held in accordance with the restrictions that have been set up for trade fair events called 'See you Safe'. At present, however, nothing has been confirmed either in terms of BFB's autumn meeting or the mini show, but a decision is expected later in the summer.

www.demcon.se

PDi news



BLASTRAC'S BIGGEST SCARIFIER AVAILABLE AS REMOTE CONTROLLED **SYSTEM**

The Blastrac 'BMP-4000RC' is a heavy duty remote controlled milling and sawing machine ideally suited for larger applications. It is a multifunctional machine that can be applied to scarifying or sawing operations, being ideal for the removal of the toughest coatings or to level floors.

The BMP-4000RC remote controlled machine is hydraulically driven with variable speed, forward and reverse, all controlled via a remote. It can be driven without any drum engaged which makes it very easy to transport on and off the jobsite. Despite appearances, it fits through door openings due to its narrow width of only 840mm (when the right wheel is folded). Both wheel hydraulic cylinders have a depth sensor indicator for a precise height adjustment whilst working, with the working depth being easily set. In addition, a display provides information about height levels and it is equipped with an ammeter. With its increased weight, the BMP-4000RC generates very precise and efficient milling and sawing actions.

Blastrac has designed a full range of milling and sawing drums, milling picks and diamond blades, which provide the opportunity to process any floor and specific application. Due to the specially designed dust extract system inside the drum housing, the BMP-4000RC is almost dust free when used in combination with the Blastrac dust collector 'BDC-99'. Depending on the job at hand, the contractor can choose the drum that best fits the needs such as a milling drum with 60 picks for rough results, a milling drum with 116 picks for thinner results or a sawing drum for very thin results. The remotely operated version provides an improved working environment, as well as delivering increased productivity.



The movement towards recycling and sustainability can often be a complex and time consuming operation, but the use of an Allu screener or crusher provides customers with the ability to recycle and thereby increase profitability.

Materials left over from construction and demolition works must be sorted in some way, even if the inert material is then directly sent to landfill. Traditionally this has seen the material sent to recycling centres resulting in haulage costs, charges at the recycling centres, and then landfill costs themselves. Allu has a solution as its product range means that construction and demolition businesses can become more efficient and productive when recycling. By using the Allu equipment, companies can process and reuse material on site thereby minimising their haulage and recycling costs. Additionally, there is no need to bring both a wheel loader/ excavator and a crusher or screener on site. Instead, the Allu 'Transformer' screening and crushing buckets can crush, pulverise, aerate, blend, mix, separate, feed, and load materials, transforming them into valuable products on site.

The Allu technology quite literally transforms the material making operations more productive, more environmentally friendly, and more profitable. With versatility at its very core, the Transformer will process just about anything it encounters. This includes mate-

rials including construction debris, concrete, topsoil, excavated soil and contaminated soil. In effect, virtually any material that can be crushed, screened, sized and sorted. This results in material processing being revolutionised as it will be accomplished with the Transformer converting the base machine (such as an excavator) into a mobile processing plant. Through using the machine in this new way, companies will benefit from reduced investment and operating costs, have a smaller carbon footprint and lower transportation costs, with material being transformed into a valuable product, thereby producing a profit stream, rather than a cost.

Another area where legislation is now requiring the use of recycled materials is with regards to aggregates. If waste material can be satisfactorily processed, then it can be turned into an aggregate for reuse and resale. If this can be done 'onsite' then the entire operation becomes more efficient as there is no need (or cost) for hauling away material to a recycling centre for processing. One such solution for dealing with aggregates or construction/demolition materials is the Allu D-Series or Allu AC Crusher. These attachments can crush soft and brittle material, separate hard unwanted impurities, while loading a dump truck or stockpiling system making them ideal for processing waste construction materials and turning them into valuable resources.



KLINDEX ANNOUNCES NEW CORPORATE STRUCTURE

Over the last several years, the Italian manufacturer of floor grinding and polishing equipment, Klindex, has been working in the background to establish a new corporate structure for the company. In May this year, the management of the company announced the implementation of the new corporate / administration structure throughout the company's business to ensure

that the manufacturer is well positioned to continue to grow and increase service to customers. Throughout the last year, Klindex has also been working on many products which shortly will be released to the market. These include a new range of grinding and polishing machines as well as other new and innovative products, plus more services and support for customers.





iTALMEK S.r.I.

Via Pieve, 6 • 25080 Nuvolento (BS) • Italy • Phone: 030.691163 Fax: 030.691163 • Email: info@italmek.com • www.italmek.com

