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ISSN Registration: ISSN 1650-979X

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The magazine PDI, Professional Demolition International is published five times per year with a worldwide circulation of 10000 copies. The annual airmail subscription rate is US\$ 45. All subscription correspondence should be directed to: The subscription department, SCOP AB, P.O. Box 786, SE-191 27 Sollentuna, Sweden. PDI is mailed by second class postage. ©Copyright SCOP AB 2000-2020

Cover picture: Impacts

PDI Magazine is a member of the following associations:



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PROTECTING OUR MOST IMPORTANT ASSET, OUR EMPLOYEES, IS PARAMOUNT

I would like to take an incident that occurred at our company at the beginning of this year as an opportunity to once again emphasise the enormous importance of accident prevention.

At the beginning of the year, we had a serious accident on a construction site. The employees had opened up a scaffolding just enough to set up the supports that secured the ceiling parts to be cut. On the last piece, the chunk that was hanging on the crane that was briefly worked on by the employee came loose. This only gave the employee a quick nudge but this was enough to throw him off balance making him take a step to the side... into space. He fell around 3m and severely injured his knee. The employee has been ill for months, cannot work and is in great pain.

One thing is clear: the most valuable thing next to our beloved families is the lives and health of our employees. They are the ones who achieve incredible things every day with their expertise, their strength and their physical commitment. The work that is required of them is strenuous and exhausting. And what is also clear is that the health and performance of our employees is our greatest asset. They must be protected and preserved. And every investment in their training, their health and in accident prevention is a good investment in our future also.

We have done a lot in recent years to make dangerous work safer. Much has been achieved and much still lies ahead of us. But together we can do it.

I would also like to point out that in October we will be celebrating the IACDS Annual Meeting & Networking event 2022 at Bauma. It will be held on October 27th, at 15:00h at Hall B1 – Room B11.

It is an important one because after three and a half years a new President, Treasurer, and Vice President will be elected this year. The Diamond Award ceremony will take place after the Annual General Meeting. If you would like to participate with an exciting project or an innovative product, please submit your application via www.iacds.org/annual-meeting.

Have a good summer and I hope to see you all at bauma.



Michael Findeis,
President of IACDS



Delta Group joins EDA

The European Demolition Association, EDA, and the European Decontamination Institute, EDI, welcomes a new member: Delta Group. Established in 1988 in Victoria, Australia, they now operate in all states and territories of mainland Australia with offices in Darwin, Brisbane, Sydney, Canberra, Melbourne, Adelaide and Perth, as well as regional branches in Karratha, Port Pirie, Geelong, Latrobe Valley, Illawarra and Hunter Valley. Its diversified services include decommissioning and de-commissioning surveys, deconstruction and demolition, civil engineering and construction, landscaping and external works, resource

recovery and waste management, asbestos removal and disposal, land rehabilitation and revegetation, and heavy equipment hire. With over 30 years' experience, more than 1000 skilled and trained employees, and a large privately owned fleet of specialist machinery, they have the scale and triple-certified management systems to meet the demands of any project in any location – metropolitan, regional, remote or marine – according to the European Demolition Association, EDA. The group has a consolidated turnover of more than \$640 million per annum and strong balance sheet, according to EDA.



Husqvarna's 'K 1 Pace' power cutter receives prestigious Red Dot Award 2022

Husqvarna K 1 Pace high performance battery power cutter has won a Red Dot Award 2022 for high design quality in the Product Design category.

With the recent introduction of K 1 Pace battery power cutter, Husqvarna Construction, a division of Husqvarna Group, took a big step forward to support professional users in the construction industry in the transition towards battery powered equipment for the heavy duty jobs. "This prestigious award and sought after seal of quality confirms that K 1 Pace is recognised for both its outstanding quality and the potential it offers in terms of optimal power and performance," said Matthias Holmdahl, global product manager Power Cutters, Husqvarna Construction.

The Red Dot Design Award is one of world's largest design competitions and an internationally recognised seal of excellent design. In 2022, designers, design offices and manufacturers from around 60 countries entered products in the Red Dot Award in the Product Design discipline. Following the motto, 'In search of good design and innovation', the 48 international members of the Red Dot jury assessed each product.

The design features of the K 1 Pace, which the Red Dot jury deemed to be outstanding, deliver real operational benefits for professional users. As well as boosting productivity and efficiency, K 1 Pace offers cordless convenience, low vibrations, built in 'X-Halt™' brake function for operational safety and zero direct emissions. "We have set ourselves out to deliver excellent customer experiences and we are very happy and proud of this team effort. K 1 Pace has an innovative combination of functions with a design characterised by the honest material and colours that guide the users how the machine is built up and how to interact with it," said Gustav Landberg, brand design director at Husqvarna Construction.

The Pace battery system, 94V with capacity up to 750Wh, 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 350 mm have been optimised for battery operation.

Saneringsgruppen joins EDA

The European Demolition Association, EDA, welcomes its new member: P. Saneringsgruppen AS. Saneringsgruppen is a demolition and environmental remediation company with offices in Bergen and Trondheim, Norway. They are approved in measure class

3 as a performing demolition contractor. They are also a publicly approved company for the handling of asbestos and hazardous waste, as well as specialists in demolition, decontamination, concrete sawing and core drilling for clients

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FINALLY BACK ON TRACK!

It is with great pleasure that I can state that we are beginning to return to normal behaviour and working methods. Most countries have lifted their restrictions on the Covid pandemic, and we can meet in a normal and unlimited way again. It's almost like before the pandemic broke out. However, people are still getting sick from the coronavirus, but the effects are not as bad as before, with far fewer fatalities. This is due to the fact that so many have been vaccinated and that we have created a form of herd immunity.

After two years of almost no traveling at all and countless webinars, I too have started to move about again. I have visited several tradeshow, conferences and customer events over the past two months. It feels fantastic fun to be able to meet contractors and manufacturers again face to face. Nothing is the same as a personal meeting. But we have learned that digital meetings are a pretty good alternative and this form of meeting has definitely come to stay, but in combination with the personal meeting. In the past, many unnecessary trips were made that we know today can be solved by the digital path. A more diversified meeting procedure will be the ideal solution financially, but is also preferable given our environment and the goals we have set to reduce global warming. However, let us now rejoice in the fact that we can once again be seen in 'real'.

I made my first international work trip since February 2020 a few weeks ago to Paris. It was an EDA (European Demolition Association) event, which for the first time in two years was able to arrange its annual meeting 'face to face' for the association's members. For two years the annual meetings were held digitally. About 250 people gathered in Paris for two days for the conference, discuss new rules, new products, the future and to socialise. In this issue you will find a detailed report about the annual convention.

During the summer and autumn, one trade fair or conference follows on from the other. Manufacturers are arranging various customer events and demolition or concrete cutting jobs are in full swing around the world. It's great to see. But as I said, people are still becoming ill from Covid and there are fears about a new wave in the latter part of the year. We can hope that no new restrictions need to be introduced.

In October, it is time for the world's largest trade show to take place. I am of course talking about bauma which is being held from 24 October in Munich. PDi Magazine will be on site, and until the show, we will frequently report on news and products that will be launched there. Already in this issue you can read

about many new items that are set to be launched before bauma. You will also find a number of interesting special features in the issue.

I would like to take the opportunity to wish all our readers in the northern hemisphere a nice summer, and those in the southern hemisphere, a nice winter.

Jan Hermansson
Editor-in-Chief
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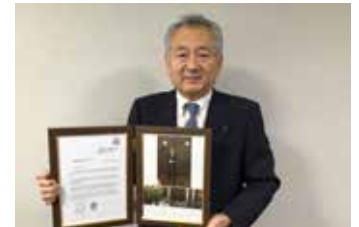


Current Prime Minister of Japan dined with IACDS in 2018

The network of contacts of the International Association of Concrete Drillers & Sawers continues to grow year after year, and sometimes very pleasant surprises are received. On this occasion, IACDS is here sharing a photo from the Japanese member association, JCSDA, sent by Norikazu Shibuya. Norikazu is the vice president of IACDS and the picture is of him showing a congratulation letter to Fumio Kishida, the current Prime Minister of Japan. Fumio Kishida shared a nice dinner with IACDS members during the IACDS annual convention held in Tokyo in 2018. IACDS is also sending a reminder concerning the IACDS 2022 annual meeting, networking event and

Diamond ceremony. It will take place at the bauma show grounds in Munich on 27 October from 15:00 to 18:00h (CET).

More information may be found on the IACDS website: www.iacds.org



Hilti Group begins year with further growth

In the first four months of 2022, the Hilti Group achieved a 5.6% sales increase to €2,000M. In local currencies, growth reached 9.0% compared to the same period last year.

"The global supply bottlenecks, combined with massive price increases for raw materials and for energy and transportation, have been further exacerbated by the war in Ukraine and the current lockdowns in China. Against this background, our continued growth is encouraging. However, the first four months have shown that 2022 will be much more challenging than last year," explains CEO Christoph Loos. The appreciation of the Swiss franc picked up again and led to a negative currency effect on sales of 3.4% points from January to April.

In the Europe business region, the Hilti Group increased sales in local currencies by 8.8% with a particularly positive development in Northern and Southern Europe. In the Americas, the increase amounted to 10.9%,

continuously supported by disproportionate growth in Latin America. Influenced by the Covid-19 restrictions in Asian countries, Asia/Pacific achieved only slight growth (+1.1%). The Eastern Europe / Middle East / Africa region recorded double digit sales growth (+15.4%) as the effects of the war in Ukraine and the associated sanctions against Russia will only become visible in the business results in the coming months.

The challenging market environment and the announced rise in interest rates increases the likelihood of an economic slowdown in the construction industry. Nevertheless, the Hilti Group continues to expect double digit sales growth in local currencies for the full year, driven primarily by price increases.

Husqvarna Group to acquire Heger

Husqvarna Group's Construction Division agrees to acquire Heger, a privately owned business specialized in professional diamond tools for European sawing and drilling contractors in wall, floor and road sawing as well as core drilling.

The company was founded in 1908 and has a long tradition of supporting customers in its field. Heger's headquarters and its manufacturing facility is located in Heitersheim, Germany, and the company has sales offices in Germany and the Netherlands. Heger has around 45 employees and around MEUR 9 in annual sales.

"The acquisition of Heger will strengthen and complement our core Concrete Saw-

ing & Drilling business in Central Europe," said Henric Andersson, President & CEO, Husqvarna Group.

"Heger's highly appreciated flexible production, short delivery times, and high performance and quality products will add significant value to our offer to customers in the Central European diamond tools market and fits well into our growth strategy," said Karin Falk, President, Construction Division. "Our combined strengths create an excellent platform for further growth in the diamond tools market for professional contractors."

Closing of the transaction is expected to occur in Q2, 2022, and is subject to customary closing conditions.

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Words from the EDA President

New era, new president

The company Despe has been a member of the EDA for many years. My father, Giuseppe Panseri, has in the past held the position of president of the EDA, and now it is my turn. Just as I took over the family business with my brother, it is now time to continue helping the association that has given us so much.

The past years have been tough in our sector, with the pandemic still weighing on the economy. But even with the thousands of difficulties that have been experienced, we have been able to overcome them thanks to the work done by Francisco Cobo. His work over the last three years has been impeccable and, without a doubt, sets a high bar for my arrival. I would indeed describe his time as president as bittersweet, but he has shown us how much strength and determination are needed to face any problems that may arise. So, I can only tell you, "Grazie mille socio".

Even with all that has been overcome, EDA must continue to evolve and renew itself. We must look towards the future. Not just me as president, but also all the members who are the essential part of the association. I am very hopeful about the future for EDA, with this new era in which we will put into practice all that we discovered and become more involved with the new needs. We seek to continue offering quality by improving technology and services but without giving up our human and warm nature that has always characterised us.

There could not have been a better start to my presidency than through attending the EDA Annual Convention in Paris. My presidency began surrounded by my dear colleagues, at this wonderful event in the company of great professionals, comprising of some marvellous people. To all, I want to thank them for their support and affection on a day that was so special for me.

We know that there are still thousands of problems that will affect my mandate, but I know we can do it because we will do it together.

About EDA

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

info@europeandemolition.org
www.europeandemolition.org



Stefano Panseri, President of EDA, European Demolition Association



From l to r: Troels Jensen and his father, Mogens from Stenderup A/S.

Bobcat appoints Stenderup A/S as Denmark dealer

Bobcat has appointed Rødning based Stenderup A/S as its new authorised Bobcat dealer for Denmark to cover all markets including construction, agriculture, rental, waste/recycling, landscaping and general industry. Stenderup is now responsible for sales and service in Denmark for the entire Bobcat range of loaders, mini excavators, telehandlers, light compaction and attachments. As well as the entire Bobcat

range of machines and attachments, Stenderup will also offer a full selection of genuine Bobcat accessories and parts to support both new and existing Bobcat customers in Denmark. This is backed up by a stock of both brand new and second hand Bobcat machines for sale. Customers will also benefit from the company's on-site service network, covering everything from emergency repairs to routine maintenance.

Singapore property developer, CDL, has clad this building in preparation for its demolition

In the last edition of PDi, we highlighted the difficulties of demolition in the city state of Singapore as it constantly redevelops itself to meet changing residential and commercial needs. The company CDL states that it has submitted plans to the Urban Redevelopment Authority (URA) to redevelop the 38 storey former Fuji Xerox Tower office building in the Tanjong Pagar district. The seven storey Central Mall and retail complex on Havelock Road has also been applied for. Both properties can be granted higher plot ratios under the government's incentive schemes.



Metso Outotec acquires Tesab Engineering

Metso Outotec has signed an agreement to acquire Tesab Engineering Ltd, a Northern Ireland based company offering mobile crushing equipment for aggregates applications, including quarrying, recycling, asphalt and concrete. Their turnover in 2021 was approximately EUR 30 million, according to Metso Outotec, and they have more than 60 employees primarily in Europe. The value of the deal is not disclosed. It will have no material impact on Metso Outotec's financials. Closing is expected to take place during the second quarter of 2022. With the acquisition, Metso Outotec will complement its current offering

in the mobile crushing and screening markets. Tesab's product portfolio includes mobile jaw, impact and cone crushers, mobile screens, scalpers and stackers. Tesab will continue as an independent brand within Metso Outotec and manage its own distribution network. "We are very glad to welcome Tesab to Metso Outotec," says Markku Simula, President of Aggregates Business Area at Metso Outotec. "I am convinced that we can further develop their business. We intend to increase Tesab's global reach by appointing new distributors and strengthening Tesab's presence in new markets."

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BAUMA 2022

24-30 oktober, 2022
Messe München, München,
Germany
www.bauma.de

BAUMA CONEXPO INDIA

2022
Gurugram, New Delhi,
India
www.bcindia.com

BAUMA CHINA 2022

22-25 Nov, 2022
Shanghai Exhibition Center,
Shanghai, China
www.bcindia.com

DEMCON 2022

November 24-25, 2022
InfraCity, Stockholm,
Sweden
www.demcon.se

WORLD OF CONCRETE

17-19 January, 2023
Las Vegas Convention Center,
Las Vegas, USA
www.worldofconcrete.com

CONEXPO-CON/AGG 2023

14-18 March, 2023
Las Vegas Convention Center,
Las Vegas, USA
www.conexpoconagg.com

SAMOTER 2023

March, 2023
Verona Exhibition Centre
Verona, Italy
www.samoter.it

IDA CONVENTION AND DEMTECH TRADESHOW

28-29 september, 2023
Bangalore, India
www.indiademolition.org
www.demtech.in

INTERMAT 2024

April, 2024
Villepinte, Paris Nord,
France
www.intermat.fr



Yanmar's "Sustainable Future" developments

From developing energy sources for customers and industry, to working towards zero-emissions from its headquarters and facilities, Yanmar develops clean solutions for the industry and society under its brand statement "A Sustainable Future". In 2021, Yanmar accelerated its efforts towards realization of a hydrogen-based society through a partnership with 2G, a provider of hydrogen-powered cogeneration systems. Yanmar completed tests of its hydrogen fuel-cell boat where a polymer electrolyte fuel cell system was installed into a demonstration vessel, followed by a demonstration of maritime high-pressure hydrogen refueling technology. Yanmar is pursuing collaborations towards decarbonization with partners in Yanmar's business domains of the land, the sea and the city. Yanmar's recent acquisition of Eleo Technologies, a battery technology company in the Netherlands,

will further Yanmar's electrified powertrain capabilities with solutions for off-road applications. Furthermore, Yanmar has revealed its first electric mini excavator prototype, the SV17e, a demonstration of their intent to build a sustainable business for their customers and dealer partners. Efforts towards realizing a sustainable resource-recycling society include bio-gas cogeneration systems that convert sewage and waste food into clean energy, generation systems that utilize waste cooking oil and a demonstration plant that realizes sustainable energy from rice husks for a resource recycling agriculture. Yanmar's advanced YC100 bio-composter, available in Japan, processes food waste to support a resource recycling society. Yanmar's transformation will encompass products with alternative fuel technologies and will embrace the entire business as they strive towards "A Sustainable Future".



New developments in Bobcat dealer network in Africa

Bobcat has announced a number of new developments in the company's authorised dealer network in Africa, with new appointments and other changes across the continent. As part of changes in the countries bordering South Africa, Bobcat has confirmed the appointment of Harare based Machinery Exchange as the new Bobcat authorised dealer for Zimbabwe, effective 1 January 2022. Bobcat is aiming to make further dealer announcements in the near future for Botswana, Namibia and Zambia.

In response to the opening up of the

market in Sudan, Bobcat has also appointed Khartoum based Albadri Power Co. Ltd as the company's new authorised dealer for the country, effective from 1 January 2022. Bobcat has also reactivated the following dealers: Rock Plant, with offices in Nairobi, Dar Es Salaam and Kampala serving Kenya, Tanzania and Uganda, respectively; Douala based Speed Appro for Cameroon; Chanic, with branches in Kinshasa and Lubumbashi, for the Democratic Republic of the Congo and Tunis based CME for Tunisia.

Kohler wins Diesel of the Year 2022

Diesel of the Year is back at Kohler, winning the award for the third time in ten years with the new KSD 1403TCA engine. It had already won the award in 2012 with the KDI 2504TCR and in 2015 with the KDI 3404TCR SCR.

Diesel Magazine, a specialist magazine in the sector in Europe since 1986, awards this prestigious title each year to what they deem the most innovative diesel engine. This year, Kohler wins the Diesel of the Year, celebrated with a ceremony in the museum at its headquarters in Reggio Emilia, Italy, in its gallery which displays engines that have marked the history of the company. The award-winning engine is part of the new Kohler Small Displacement engine series, KSD, designed to adapt to all geographical areas, comply with all regulations worldwide and be compatible with all types of machines, according to Kohler. The KSD series is the result of a market-oriented and customer-oriented approach. It can be integrated with complex electronic systems of industrial machines, and is advanced as it allows different customisations for all work cycles, as well as offering the possibility of data exchange with a reduced number of physical connections. It is versatile, being adaptable to the machines without need for modifications or redesigns.

The 1403TCA, which stands for Turbo Common Rail with Aftercooler, is one of three engines in the KSD range, which also includes the 1403 Turbo Common Rail and the 1403 Naturally Aspirated. This version boasts a peak torque of 120 Nm at 1400 rpm, a displacement-to-torque ratio competitive with engines of the same displacement but with outputs between 30 and 42 kW that need after-treatment systems, according to Kohler. The sub-19 kW engine complies with current global emissions regulations: EU Stage V, US Tier 4 Final and, by the end of this year, also China Stage IV. Consumption is reduced by optimising engine speed and controlling hydraulics. Service intervals are maximised and total cost of ownership is low, thanks also to smart prognostic and diagnostic functions, according to Kohler.

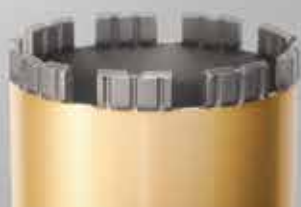
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McCloskey commits to India

McCloskey International has introduced new products and capabilities to the Indian market at the Confederation of Indian Industry's exhibition Excon. The display housed four key product offerings, hospitality and information.

McCloskey has recently established a new sales office in Gurugram, India, manufacturing operations in Alwar, and has appointed a roster of dealers across the region to fulfill the demand for tracked mobile equipment in industries relating to infrastructure, aggregates, C&D, and more. The manufacturing focus in Alwar is on designing and supporting tracked mobile equipment suited for all applications. Country Manager Abhishek Nagpal oversees sales in the region, as well as working with strategic distribution partners who will bring McCloskey's product range to the market. "McCloskey's journey in India is starting at a very exciting time," says Abhishek Nagpal. "The economy is on a post-Covid recovery path, and we are seeing the government announce stimulus packages and investments for the pandemic impacted sectors. We are ready to meet the increasing demand for highly reliable and efficient track mobile crushing and screening equipment with our manufacturing facility in Alwar producing screeners, crushers and stackers. We are now excited and equipped to sell to customers around the corner, and around the globe. I am very proud to be a part of McCloskey's growth in India."

Initial production in Rajasthan includes the S190 screener, the J45 jaw crusher, the TS4080 stacker and an addition to the compact crushing range, the C2C compact cone crusher, all of which was featured at Excon. The C2C cone crusher offers the productivity of a full size 200hp cone in a compact footprint, according to McCloskey. The MC200 cone was on display with information available on key features including fully hydraulic push button CSS adjust, variable speed, and productivity delivered through the long stroke and high speed in terms of capacity, reduction and end product shape. "As McCloskey expands its manufacturing and operations in response to rising demand in the region we look forward to growth – of the business as well as the team," said John O'Neill, VP Sales and Marketing for McCloskey International. "We look forward to contributing in a meaningful way to the business success of our partners and customers."



NEW HITACHI DEALER IN UKRAINE

Hitachi Construction Machinery Europe NV, HCME, has appointed Mobile Heavy Machinery Ltd, MHM – part of the Alwark Group – as the authorised dealer in Ukraine.

Based in the port city of Odessa on the Black Sea in the south of the country, MHM will offer Hitachi Construction Machinery's range to the market. They will be authorised to sell medium excavators, from the ZX70LC-5 to ZX400LC-5; large excavators, from ZX470LC-5 to ZX870H-3; wheeled excavators, from ZX170W-5 to the ZX210W-5; and medium wheel loaders, from ZW180-5 to the ZW310-5. In addition, it will help existing owners to protect their investment in Hitachi construction machinery with a national network of after-sales services. Furthermore, MHM will embrace HCME's value chain strategy to become the country's first-choice solutions provider and help to build a better future. According to Hitachi, this will be achieved by providing the Ukrainian market with access to

the Hitachi Premium Rental and Premium Used programmes, as well as remanufactured parts and the wide range of connective technologies available under the ConSite and Solutions Linkage banner. This approach will be supported by MHM's parent company, which has specialised in industrial machinery and been one of the market leaders for more than a decade. The Alwark Group also operates in Lithuania, Estonia and Latvia, maintaining more than 5000 machines and employing more than 250 people in the region.

As a consequence of the Russian invasion of Ukraine in February, the construction and related markets changed overnight and this has naturally had a huge impact on MHM's strategy for the country. Before the conflict, the construction industry had registered an

annual growth of 23.9% in 2019 and 5.2% in 2020, and despite the pandemic this figure was also expected to increase in 2021 and beyond. This was scheduled to be supported by the government's investment in the development of transport infrastructure, energy and utilities, and industrial construction projects (due to be completed by 2030) with additional financial assistance from the EU. "It is of course currently difficult to make any forecast on the future of the market, but we remain as optimistic as possible despite the war," says Raivis Veckagans, MHM's Regional Director Ukraine. "There has been incredible damage to Ukraine's infrastructure and one day there will be a huge requirement to rebuild it with the supply and support of Hitachi construction machinery."

Successful 2022 European dealer conference for Doosan

Doosan held the company's European dealer conference in Barcelona from 4 to 6 April 2022.

The event had an audience of 182 attendees, 134 of which were Doosan European dealers. Among the attendees were members of the Hyundai Doosan Infracore executive team from Korea, as well as managers from various areas of the

company. Under the 'Unite 2022' theme, presentations at the Doosan conference showed the participants that they were all united by their passion for construction equipment, the Doosan brand, and that they also shared the success and recognition of customer satisfaction with the brand and service, which together resulted in ever stronger and more united dealers.





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HILTI INNOVATIONS WIN TOP DESIGN AWARDS

This year, the iF and the Red Dot juries honored four new Hilti products with awards for design quality and degree of innovation. No less than two of them emerged as Red Dot 'Best of the Best' category winners.

The top spot for the latest generation of the TE 3000-AVR jackhammer is no coincidence, as it marks a technical and ergonomic breakthrough. Compared to its predecessor, the performance level has been increased by 40%, weight has been reduced by 3kg and vibration levels have been cut by 10%. As a result, the all-electric tool achieves a performance level of 45kg jackhammers, but is around a third lighter and free of CO2 emissions. The decoupled handles, combined with vibration damping in the housing, ensure comfortable handling and better health protection.

The second Red Dot category winner is the DX 6 fully automatic fastening tool. The new control system brings significant advances in terms of productivity and intuitive operation. The precise power setting enables a much wider field of application using one cartridge class as well as more uniform and accurate fastenings on concrete, sandstone, masonry or steel. The package is rounded off with

integrated networking to tool data, operating instructions and services.

The iF and Red Dot seals of quality were also awarded to the DS 1510-CA diamond wire saw and the AG 4S-A22 cordless angle grinder. The diamond wire saw is mainly used for larger structural adjustments. In such demanding applications, safety and ease of operation are paramount. Hilti has striven to meet these demands with an 'all-in-one' drive unit, including automatic wire tensioning and cut steering as well as a wireless remote control.

Safe working was also the focus during the development of the AG 4S-A22 cordless angle grinder. These tools should remain easy to operate and comfortable to operate, even when used in a wide variety of positions for extended periods. Ergonomics have been improved with the slimmed down handle, without sharp edges, and the balanced arrangement of the mechanical components. Hilti's 'Active Torque Control' (ATC) system stops the tool body from spinning uncontrollably if the disc jams.

The iF and Red Dot product design competition juries evaluate the entries primarily on design and ergonomics, degree of innovation, and product quality and functionality.

WORX AND GENERAC FORM U.S. PARTNERSHIP

C.W. Machine Worx, headquartered in Carroll, Ohio, and Generac, based out of Waukesha, Wisconsin, are partnering to offer customers a cost-effective dust suppression product.

Generac recently named Worx as the exclusive distributor of the Dust Fighter 15000 and 20000 models in the United States. Both options will be available to rent or purchase through Worx's dealer, Company Wrench. The DF 15000 and DF 20000 are mid-sized units capable of reaching throw ranges of 150 and 200 feet, respectively. Both Dust Fighters are equipped with Generac generators and are mounted on trailers. The Dust Fighters' low weight makes transporting to multiple jobsites easier and more affordable, according to Company Wrench.

Worx was the authorized Dust Fighter distributor 13 years ago when the product was owned by Tower Light. Worx stopped offering the Dust Fighter product to focus on manufacturing its own, domestic dust suppression product line. After successfully introducing the Dust Destroyer to the market, Worx began exploring other ways to establish itself as the leader in dust suppression equipment and technology. Worx's Product Manager, Hugh Gordon, believes adding the Dust Fighter options to its product offering accomplishes this

goal. "We had tremendous success selling Dust Fighters in the past," says Hugh Gordon. "I'm confident we will build upon this success because of the brand recognition and the price point in the market."

Hugh Gordon also explained how the collaboration between Worx and Generac resulted in a superior product for customers. "All of our dust suppression products, including the DF 15000 and DF 20000, feature a wheelless base design. Instead of using tricycle wheels, which can tip over if it's top-heavy or stuck in a groove, Worx's balanced trailer allows for increased stability and mobility."

Reintroducing the DF 15000 and DF 20000 allows Worx to diversify its fleet with cost-effective options, which are appealing to a wider customer base. "The price, paired with the weight, stability, and high-quality generator, separates this product from its competitors."

Worx offers a wide range of dust suppression solutions through its dealer, Company Wrench, as well as custom fabrication for specialty equipment needs.



C.W. Machine Worx and Generac form U.S. partnership

C.W. Machine Worx (Worx), headquartered in Carroll, OH and Generac, based out of Waukesha, WI, are partnering to offer customers a cost effective dust suppression product. Generac recently named Worx the exclusive distributor of the 'Dust Fighter' 15000 and 20000 models in the United States. Both options will be available to rent or purchase through Worx's dealer, Company Wrench.

The DF 15000 and DF 20000 are mid-sized units capable of reaching throw ranges of 45m and 60m respectively. Both Dust Fighters are equipped with Generac generators and are

mounted on sturdy, well balanced trailers. Worx is no stranger to the Dust Fighter product as the company was the authorised Dust Fighter distributor 13 years ago when the product was owned by Tower Light. Worx stopped offering the Dust Fighter product to focus on manufacturing its own, domestic dust suppression product line.

After successfully introducing the 'Dust Destroyer' to the market, Worx began exploring other ways to establish itself as leading player in dust suppression equipment and technology. Worx's product manager, Hugh Gordon, comments. "We had tremendous

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Reintroducing the DF 15000 and DF 20000

allows Worx to diversify its fleet with cost effective options, which are appealing to a wider customer base. "The price, paired with the weight, stability, and high quality generator, separates this product from its competitors," Gordon said. Worx offers a wide range of dust suppression solutions through its dealer, Company Wrench, as well as custom fabrication for specialty equipment needs. For more information about the Dust Fighter, other dust suppression machines, or custom fabrication services offered by Worx and Company Wrench, visit www.cwmachineworx.com or www.companywrench.com.



Roy Johansson 1951-2022

It is with great sadness that we report that one of the really great legends in the demolition industry, who in terms of work with, above all, demolition robots, has left us. Roy Johansson was born in 1951 and grew up in Västerlanda outside Lilla Edet in Sweden. For the past 30 years, we as an industry magazine have followed Roy's work on several occasions. He possessed a unique knowledge of demolition robot technology and was one of the great operators of Brokk equipment of all time.

Roy worked for a number of years in demolition in Sweden but moved in 1984 to the United States, more specifically to Port Chester, north of New York. He was one of those who introduced demolition robot technology to the American market and was involved in working, on among other things, on the tunnels that connect Manhattan to the mainland. Roy would remain in the US for a full 36 years and was mostly active in his own company Robo Breaking, which he owned and operated in Port Chester together with his colleague Mitch Schumer. But at the age of 70, he decided to return to his old homeland and settled in Fjällbacka, Sweden.

PDi Magazine had the privilege of meeting him on the boardwalk in Fjällbacka and talking about old memories at the end of June last year. That meeting was the fifth since the mid-1990s. Roy was an amazing person with a big heart and always took time for his fellow human beings. It was a great privilege to get to know Roy and memories of him will be cherished tenderly. We had hoped to see him at the Swedish trade show, Demcon, in November this year, but unfortunately that will not be the case.

We will remember Roy with great reverence and gratitude for the person he was and what he has done for both the Swedish and American demolition industry. We are now thinking in particular of Roy's family, children and grandchildren, siblings and more. Rest in peace Roy.

Anyone who wants to read the last article published about Roy in PDi Magazine can find it at the link here: <https://pdworld.com/articles/view/back-in-sweden-after-36-years-as-a-demolition-contractor-in-new-york1>.

Jan Hermansson

BDS launches new website

BDS Marketing Research, a research specialist in minerals, heavy building materials and waste, has announced the launch of a new company website. Designed and developed by Dave Wright, QMJ marketing manager, the website features a consistent navigation, helping to sub divide the work of BDS into three work streams: Intelligent Planning, Intelligent Reports and Intelligent Consultancy. Intelligent Planning consists

of BDS' monitoring of planning activity for Great Britain, Northern Ireland and Republic of Ireland, providing information to clients via an annual planning subscription. BDS identifies and reports on planning schemes for various industry sectors. For Intelligent Reports, BDS regularly publishes industry focused reports in addition to regional, sector and market specific bespoke reports. All reports, published by

BDS, are displayed on the BDS website and can be purchased by contacting the BDS team. For Intelligent Consultancy, BDS offers a bespoke consultancy service to support clients in meeting their operational and strategic objectives. Research undertaken by BDS includes both existing, new and expanding sectors within the construction and waste industries.

www.bdsmarketing.co.uk

Kinshofer acquires Trevi Benne

German company Kinshofer GmbH and the in Italy based company Trevi Benne S.p.A. have announced that they have signed a definite agreement to merge. Under the terms of the agreement, Kinshofer has acquired a majority shareholding of Trevi Benne.

For over 50 years, Kinshofer has been one of the leading manufacturers of tools for truck mounted cranes, excavators and skid steer loaders, consistently developing its product range in both the crane and excavator markets to become a competent and reliable partner for OEM's and OED's. Previous acquisitions of Liftall Inc. (Canada), Demarec B.V. (Holland), RF System AB (Sweden), Auger Torque Group (U.K./Australia/ China), Solesbee's LLC (U.S.A.), the Doherty Group (New Zealand/ Australia), Hammer Srl. (Italy) and Cangini Benne Srl. (Italy) were other important milestones of this development.

The acquisition of Trevi Benne is significant for Kinshofer in three ways: firstly it strengthens Kinshofer's portfolio of demolition tools; secondly it adds additional product segments to Kinshofer's already highly comprehensive offering; and thirdly, it improves Kinshofer's distribution channels in markets Trevi Benne is very strong. That is not all as Kinshofer has now further enhanced local manufacturing in Italy, with its Novento Vicentina based vertically integrated and highly

advanced manufacturing facilities enabling customers to be served much quicker and with access to a much larger product range. With this move, Kinshofer further demonstrates its commitment to being a global leader in attachments to the crane and excavator industry.

Trevi Benne, was established in 1992 as a family business, is focused on the development and marketing of demolition and scrap processing tools for excavators to make carriers more productive and long lasting. Trevi Benne's industry success is based on Mr. Luca Vaccaro's and his team's 30 years of knowledge. With an extremely committed and well educated workforce, Trevi Benne will continue to develop and sell its products globally. In order to meet the current market requirements, Trevi Benne and Kinshofer will recruit more staff to ensure a swift and professional market launch of the companies' products within either sales organisation.

Thomas Friedrich, president and CEO of Kinshofer Group, said: "Kinshofer continues its strategy to provide the industry with a 'one stop shop' solution of outstandingly

engineered products to increase efficiency and, more importantly, profitability for its customers. The acquisition of Trevi Benne was the next step in our approach to be a global industry leader with solid local presence."

Luca Vaccaro will remain co-owner and CEO of Trevi Benne. He commented: "The concentration of knowledge and competence, particularly in the demolition sector, will form a powerful centre for future developments customers can only benefit from. The combination of both product ranges will create more ground breaking innovations for the industry. The whole Trevi Benne team, which will stay on in its entirety, is very excited to be part of this mutual future."

Kinshofer's and Trevi Benne's employees are working on the rapid integration to provide customers worldwide with their comprehensive range of products and services. Kinshofer Group is part of Lifco Group to which the demolition robot manufacturer Brokk and hydrodemolition equipment manufacturer Aquajet Systems also belongs.

www.kinshofer.com
www.trevibenne.com





LARGER TOOLS AND HIGHER REACH

The Kobelco SK1300DLC has an operating weight of 130t and a reach of up to 40m, making it, according to Kobelco, the world's largest OEM manufactured building demolition machine. Its introduction to the European market in March 2022 was marked by a series of customer events held near Kobelco Construction Machinery Europe B.V.'s head office in Almere. Three SK1300DLC models have already been sold and are now set to work on demolition jobsites all across Europe.

Kobelco has long enjoyed a reputation as a leading manufacturer of demolition equipment in Japan. As an earthquake epicentre, buildings in Japan are often reinforced with concrete or steel to help ensure they are strong enough to resist seismic activity and provide adequate protection in the event of a natural disaster. However, when older buildings are no longer fit for purpose and redevelopment is required, machinery needs to be strong enough to demolish these structures, but also powerful enough to get the job done efficiently.

Over the last several years, there has also been an increasing demand for this size of building demolition machine, in particular for the demolition of industrial facilities, power plants, oil rigs and other infrastructure related projects and the regeneration of urban areas. The ultra-high reach SK1300DLC-10E, which joins the smaller SK350DLC-10E, SK400DLC-10E and SK550DLC-11 in Kobelco's demolition line up, combines all the benefits of a conventional Kobelco excavator, but with the added strength, durability and technology to tackle some of these tough demolition conditions.

Versatile machinery for versatile jobsites

Like Kobelco's other demolition models, the SK1300DLC is a common base type machine. However, the integration of the Kobelco developed 'Next Advance' system means that it can be adapted for multiple applications on the jobsite, including high elevation demolition projects as well as breaking up building foundations. The system's four piece high reach demolition attach-

ment was developed to achieve greater working heights with heavier tools, whilst the new articulated structure enables a heavy tool to be elevated while keeping the machine's centre of gravity low. With a maximum pin height of 40m, the ultra-high reach attachment can accommodate a crusher capacity weight of 4.3t, while the 35m boom configuration can support even larger crusher weights of 5.2t. A three piece high reach attachment is also available with 35m and 31m configurations, accommodating crusher capacity weights of 5t and 6.1t respectively. The separate boom configuration allows fitment of even larger crushers of up to 12t, which can be used for processing of material at ground level, or to tackle deeper sub grade foundations.

The modular design of all Kobelco's demolition models allows easy transport with fast set up and disassembly. Once collapsed, the SK1300DLC's base



machine has a transportation weight of less than 32t and a width of around 3.2m, which makes travelling between jobsites in urban environments, or in countries where there are strict regulations, possible.

Operator comfort and safety

As well as being challenging, demolition jobsites can also be dangerous as there is a significant risk of flying debris. With this in mind, the SK1300DLC has a number of systems and features to help ensure the operator's safety while working on site. The 'Cab Interference Prevention System' alerts the operator if the attachment comes within a certain distance of the cab, then stops gently and automatically. As there is no worry of contact, the system helps improve operator efficiency as they can more confidently perform lever operation. A tip over warning device determines whether there is a danger of the machine tipping from the relative position and swing angle of the attachment. If the machine is in a dangerous position, the operator will be alerted with an audible alarm and a warning on the screen.

In addition, the demolition specification tilting cabin is fitted with high strength security glass and radial grid guards across the front and top windows for visibility and safety, meaning that the operator can maintain a comfortable posture during high elevation demolition work. Cameras fitted to four locations on the base machine (rear, right and left sides, and under the upper machine body), plus two cameras at the tip of the arm, also enables the operator to check their surroundings from the comfort of the cab. Other safety features include high intensity LED working lights at the front, cab lights and boom light, a debris detector to prevent falling demolition debris from colliding with the cab, handrail and cab emergency lowering device lever.

Maintenance

Whatever the size of its demolition machines, Kobelco has integrated features for minimum downtime on the jobsite. In the SK1300DLC, improved maintainability is assured through the reversible cooling fan, which reduces the build-up of debris, a wide maintenance walkway for easy access to inspection points, and a factory installed greasing system for lubrication of the machine and attachment pins. Reliability and durability are also assured through the hydraulic holding valves on the boom and arm cylinders, bucket cylinder and jib cylinder guard to prevent damage during demolition operations.

Commenting on the arrival of the SK1300DLC, Kobelco product manager, Peter Stuijt, said: "Kobelco has amassed significant experience with this class of building demolition machines in the Japanese market, so the SK1300D is a machine with an excellent pedigree. Introduced in Japan in 2021, the SK1300DLC's reputation as a workhorse in the toughest and most challenging demolition conditions is now second to none. Due to the increased demand for heavy demolition equipment in Europe, the arrival of the machine earlier this year had been highly anticipated.

"The SK1300DLC is ideal for demolition projects that require a high reach of over 30m, but its Next Advance system also makes it ideal for demolition work at ground level or sub ground level too. We see that this versatility, and the fact that it is quick and easy to disassemble and transport, is of great benefit to demolition contractors working on multiple jobsites. Despite its commanding size, at the heart of it, the SK1300DLC also has all the same great high quality and performance characteristics Kobelco is renowned for."

The Ergo system also works with Rotolance attachments for improved capabilities in confined or hard to reach places.



Aquajet highlights 'Ergo' system at Ifat 2022

Aquajet, the manufacturer of hydrodemolition robots, exhibited at Ifat in Munich, Germany, for the first time to introduce its industrial cleaning solution to the water, sewage, waste and raw materials management industry.

Aquajet's innovative Ergo System, a compact hydrodemolition robot unit, was on display at the trade fair which was held from 30 May to 3 June, 2022, at booth C4.213. The Ergo is said to offer four times the power of a hand lance and provides manoeuvrability and power through remote operation to keep workers out of harm's way during hazardous cleaning applications.

"Hydrodemolition robots automate processes, giving operators the ability to step back from dangerous situations and to increase productivity," said Roger Simonsson, Aquajet managing director. "This is advantageous to any industry that needs to remove concrete, contaminated concrete, coatings, paint or other materials. We're pleased to bring our technology to Ifat for the first time to discuss the safety and efficiency benefits it offers."

Using a number of productivity enhancing attachments, the Ergo system can be operated remotely for efficient cleaning and removal of material in boilers, tanks, pipes and other industrial containers and conduits. The Ergo system incorporates the controller

unit, which powers and controls and the hydraulics, the power head, which manipulates the high pressure lance, and either the spine or the climber, which are unique systems used to support and maneuver the power head, based on project needs. The climber attaches to any standard scaffolding or pipes and robotically moves along it to deliver powerful hydrodemolition forces to remove material.

The Ergo system also works with 'Rotolance' attachments for improved capabilities in confined or hard to reach places. The Ergo Rotolance 130 and 130S work at pressures ranging from 1,000bar to 3,000bar and offer a variety of nozzle configurations for a spray pattern diameter from 30mm to 130mm. The system exerts an impressive 1,000N of reaction force, which the company says is as much as four times greater than a human operator with a hand lance. This means the machine can effectively clean and remove concrete, rubber coatings, paint, rust, plastic and other materials as well as roughen surfaces for better bonding faster than traditional methods. This makes it ideal for resurfacing

applications in tanks, reservoirs and other containers.

Hydrodemolition robots, such as the Ergo system, consistently remove decayed concrete and built up materials to a pre-set depth. Alternatively, a hand lance will likely leave inconsistent depths due to operator inefficiencies and inaccuracies. This means contractors may have to do another pass to completely remove materials or risk damaging underlying surfaces by being too aggressive.

Contractors can easily move the 123kg Ergo controller unit around the facility or worksite and over soft or rough surfaces, due to the wide wheels and low ground pressure. Its compact size makes transport easy on a pallet. Additionally, the system is service friendly with hydraulic hose multi connectors that are 100% sealed from moisture to virtually eliminate the risk of leaks during transportation.

FIVE NEW COMPACT WHEEL LOADERS

Following the signing of an exclusive supply agreement with Netherlands based Tobroco-Giant, Doosan has confirmed the details of the new five model range of 3.5t to 5t compact wheel loaders now available from the company. Comprising of the DL60-7, DL65-7, DL80-7, DL85-7 and DL80TL-7 models the new loaders are suitable for a wide range of applications. All the new machines offer a full package of modern technology features including: a powerful Stage V engine, hydro-

static four wheel drive, differential lock on both axles, versatile and powerful hydraulics and high lift capacity with dependable stability. The DL60-7 and DL65-7 are driven by a Stage V engine providing 48.5kW of power at 1,600rpm whilst the Stage V engine in the DL80-7, DL85-7 and DL80TL-7 provides 55kW of power at 1,500rpm. A wide range of attachments is available to fit and a wide selection of tyres also enables customers to obtain the maximum performance in their applications.





KRC range of innovative drum cutters from Kemroc

Kemroc design engineers have come up with a clever way to improve the performance of rotary drum cutters for trenching. Rotary drum cutters in the KRC range have two cutter drums set at an angle to one another so that there is very little space between the carbide tips of the picks as they turn. As a result, there is an almost continuous cutting pattern along the full width of the cutter head thereby eliminating or reducing to a minimum the ridge of rock or concrete that is left.

With the KRC range, Kemroc says it has succeeded in producing a new generation of drum cutter excavator attachment specifically designed for trenching. Models in the range do not require the central cutting chain as found in its EK range. The main design concept of the new KRC models is the unique gearing arrangement that has the shafts and cutter drums set at an angle to one another on the gear box. The internal picks on each drum rotate close enough to each other to eliminate the need for a central cutter chain between the two drums.

With the cutter drums set at an angle to one another, the KRC milling attachments can grind material away without leaving a gap in most cases. In most rock types this minimises, or even completely removes, the ridge that is produced when using conventionally designed rotary drum cutters and eliminates the need for lateral movement of the excavator arm to grind this ridge away. This has enabled Kemroc to close a gap in its range of drum cutter attachments.

Apart from the angled cutter drums, the technical specifications of the new KRC models correspond in many respects to the models in the established KR range. When compared to Kemroc's EK range of chain cutters, the KRC range is cheaper and easier to maintain. However, models in the new KRC range cannot quite achieve the same extremely narrow trench widths of the EK cutters. Therefore, each range of cutter attachment has its own individual benefits. In parallel to the launch of the new KRC range of excavator attachments with angled cutter drums, Kemroc will continue to promote and develop the well-established range of EK chain cutters, EKT convertible cutters and rotary drum cutters in the KR and KR D ranges.

The first machines in the KRC range will be available to customers from September 2022. Initially, the plan is to offer three models with 80, 90 and 100cm cutting width for use on excavators from 15t to 55t operating weight.

The next generation Sennebogen 3.40 G 4t telehandler

With the latest addition to its 'Multi Line', the 3.40 G-series, Sennebogen is now offering a new telescopic handler with a load capacity of 4t, a stacking height of 7.70m and a state of the art cab which may be elevated to an eye level of 4.10m for 360° all round visibility. The new generation G-series also provides high levels of user friendliness and efficiency.

Sennebogen is expanding its Multi Line product line with its second model, the 3.40 G. In addition to its performance, the telehandler is designed to deliver all round visibility and may be elevated to a level of 4.10m. The machine is also compact and provides high levels of stability. It is the little brother of the established 355 E, and has now been developed as an addition to the Multi Line portfolio for use as a telescopic handler and as a multifunctional machine. The 4t machine has compact dimensions of 5.50m length and just under 2.50m in width. The stacking height of the telescopic boom is 7.7 m. Stability is provided with a long wheel base of 3.10m and low centre of gravity, with the entire machine having an operating weight of 9.3t.

Throughout the design and construction of all components, special attention has been paid to the requirements of multi shift operations in tough material handling. A high strength, solid steel frame and sophisticated design of the telescopic boom ensure that the forces occurring in loading operation are optimally absorbed by the body. This ensures the reliability and durability of the machine, even in demanding continuous operation. It is equipped with a 100kW diesel engine in emissions category V and can reach speeds of up to 40km/h with its step less traction drive. The operator can choose from two further modes in addition to road mode. In stacker mode, the machine is more energy efficient and sensitive, while loading mode mobilizes

all power reserves for optimal loading and transport of bulk goods.

The design of Sennebogen's 3.40 G combines the advantages of a telescopic handler and wheel loader technology in one machine. Its SML Power provides optimal power transmission thanks to the Z-kinematics enabling wheel loader and multi-functionality as well as providing the manoeuvrability and compactness of a telescopic handler. These features are complemented by optimised visibility thanks to an elevating cab, providing high levels of overview and safety when loading onto trucks etc.

In its 4t class, the 3.40 G is not only aimed at customers' material handling requirements or recycling companies, but also sectors such as biogas plants or contractors in agriculture and municipal services. The various equipment options can be operated flexibly at the push of a button, from using a bucket to using a sweeping brush and snow blade. The 3.40 G also may be used with trailers, whilst the variable travel drive with compact drive transmission ensures fast driving or high torque with up to 65kN traction and thrust, depending on requirements.

As with all Sennebogen machines, the 3.40 G can be configured to suit almost any requirement. There is a wide variety of optional equipment available, ranging from the automatic central lubrication system for optimised serviceability, to the compressed air brake system for trailer operation, or tyre variants depending on the area of application.



With the new 4t 3.40 G model, Sennebogen is expanding its product portfolio of telescopic handlers with a machine that impresses in terms of visibility and operator comfort.

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No matter what task a specialist contractor might be facing – wall cutting, wire sawing of steel structures or rock excavation – choosing the right equipment is the key to success. PDi's Andrei Bushmarin presents the latest developments in the field of concrete and rock cutting.

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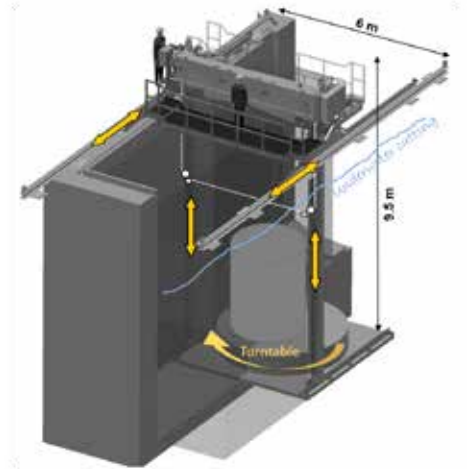
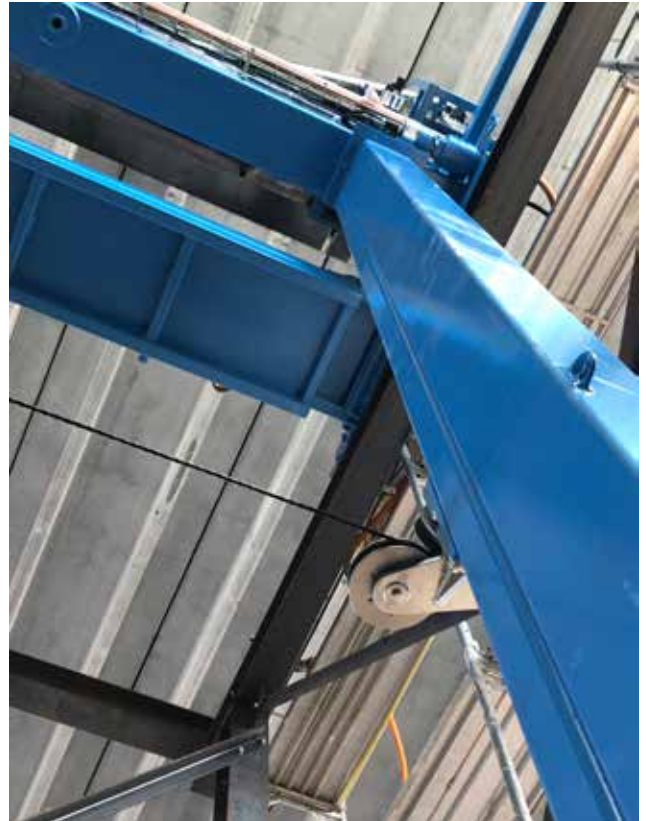


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Eurodima reports strong growth

Austria based Eurodima has been specialising in the development of professional sawing and drilling equipment for over two decades. Over the years, the Austrian company has built a strong sales and distribution network covering the entire world. Its proven wall saw blade ML89 features a patterned diamond segment for high cutting speed and extended tool life. Eurodima's WS20 wall saw, which boasts a combination of high performance and low maintenance cost, is available on the two rail systems: WS20E (Eurodima) and WS20H (Hilti). Powered by a 23kW servo engine, the WS20 accommodates diamond blades of up to 825mm in diameter and has service intervals of 250 operating hours. The wall saw's drive unit can be converted to the wire sawing mode without the use of any additional tools. The wire saw has a rugged construction, high torque, adjustable cutting speed and pneumatic wire tension-

ing system. Johannes Radauer, Eurodima's managing director says of the company's progress in recent years: "We are very satisfied with the last year's increase in sales of our servo engine systems worldwide and we are continuously extending our dealer network. To see our latest innovations, customers are invited to visit the Eurodima booth at bauma in hall A1."

www.eurodima.com

Siegenthalerconsulting designs a portal wire sawing system

The demand for tailor made wire sawing systems is increasing worldwide. Complex demolition projects at nuclear power plants often require job specific wire sawing equipment. Switzerland based consulting firm Siegenthalerconsulting GmbH has designed, in partnership with ATP Hydraulik AG, a portal wire sawing system for a job at a nuclear power plant in Switzerland. ATP Hydraulik

AG designs and manufactures hydraulic and mechatronic systems as well as pneumatics control solutions. The portal wire saw is the first of its kind in the nuclear decommissioning segment. It is primarily used to cut large steel structures such as water separators or steam dryers underwater. Most of these structures are highly radioactive. Underwater cutting prevents airborne debris and proliferation of high radioactive contaminants. The system is remotely controlled to reduce the risk of exposure to operators. The portal wire saw is capable of performing both vertical and horizontal cuts. The advance feed mechanism is infinitely and load dependent adjustable. Furthermore, cutting accuracy can be refined down to millimetres due to positioning of the diamond wire pulleys, with sawing progress being shown on the remote control's display. Siegenthalerconsulting GmbH also supplies high quality diamond wire as part of the delivery scope.

www.siegenthaler-consulting.com



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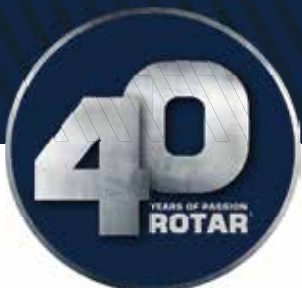
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Simex RWE 100 wheel saw helps rehabilitate a hospital wing

Switzerland based contractor LötscherPlus is carrying out a major renovation and extension project of a wing of the city hospital in Lucerne. When removing the old foundations, the company encountered a lot of difficulties dealing with sandstone - the sedimentary rock that constitutes much of the site's subsoil. Hard and abrasive, with resistance values between 70 and 100MPa, it cannot be profitably removed using traditional buckets. Likewise, with hydraulic hammers, acceptable performance is not achieved without the material being previously sectioned and fractured. Given this, LötscherPlus opted for a Simex RWE 100 wheel saw, the largest in the Italian manufacturer's range, designed specifically for cutting hard and dense materials. The attachment, procured by Hydremag Ag - a Simex dealer in Switzerland - was fitted with a cutting wheel with a working depth of 800mm and a width of 130mm. Longitudinal cuts were first made along the foundations so that hydraulic hammers could then operate without the risk of getting stuck in the material. The RWE 100, mounted on a Hitachi ZX 350 excavator, ensured an advancement speed of 6m/h which, given the resistance and abrasiveness of the material, was a real success. That success was largely due to the two large displacement hydraulic motors that generate a cutting force of 55.7kN (with a wheel designed for 800mm depth, set at 380bar). The Simex RWE 60 and 100 wheel saws fit 28t to 75t excavators and are designed for horizontal or

vertical cutting in hard and abrasive materials. The most common application for these models is construction and demolition sites where selective removal of large sections of concrete or rock is needed.

www.simex.it

Solga Diamant a diamond wire specialist from Spain

Solga Diamant, a specialist manufacturer of diamond consumables based in Barcelona, Spain, has been

producing diamond wires for construction and stone cutting applications for over 30 years now. Solga's wires feature sintered beads made by the hot isostatic pressing and free sintering technologies as well as vacuum brazed beads. The manufacturer's in house rubber injection system ensures maximum safety, flexibility and durability. Currently one of Solga's most in demand wires is the FS model, a versatile tool that allows users to cut reinforced concrete fast and at a reasonable cost.

www.solgadiamant.com





OBRAS Y SERVICIOS TEX

a loyal Doosan customer

Obras y Servicios TEX is a family business located in Barbatina (Navarra) in Spain with headquarters in Abrera (Barcelona). The company was created in 1995 and has 140 staff, working on both national and international projects. Under the direction of Juan Andrés Solano, the company provides solutions for specific projects in the construction sector.

Obras y Servicios TEX has a large fleet of machinery to meet the needs of its clients involved in public and industrial works, earthworks, maintenance, demolition, urbanisation and waste management. The company has two operations for recycling materials; one for materials from construction waste and the other for aggregate recycling, in which Doosan excavators are routinely working. The latest fleet acquisitions at Obras y Servicios TEX are a Doosan DX170W-5 wheeled excavator and a new DX350LC-7 crawler excavator. These replaced previous Doosan models which had completed more than 19,000h each, providing excellent results throughout.

Loyalty to Doosan

"I started working with Doosan machinery in 1997," says Juan Andrés Solano, "We initially bought a 'Solar' 250 LCV excavator, after testing it and seeing the results, we bought the same model again. Next was a Solar 340 LCV excavator, followed by another 12 Doosan machines comprising of various models. We currently have 12 DX170W-5 wheeled excavators, the last one acquired in 2021, three DX255LC-5s and an NLC model, plus DX420LC-5, DX340LC-5 and DX520 machines and the latest, a new DX350LC-7 36t crawler model.

"We remain with Doosan since the machines work very well and are very versatile, very comfortable and with a price quality ratio that is the best on the market for us. I have never considered changing brands. We already know them and they have worked very well for us, with no problems. The service provided by Reyvena, the authorised Doosan dealer for Navarra, is also very good and extremely important for us.

"In addition, the evaluations of the operators are very positive. In fact, when we went to buy the first Doosan's, our operators decided that we should opt for them. Previously they worked with other brands, but they tried them and it was they who opted for the Doosan excavators. They find them versatile, easy to handle, agile and at the end of the day they notice a big difference, both in terms of productivity and in the comfort that the cabs provide them."

Clean and very precise work

Juan Andrés Solano continued: "These machines give us reliability, all the work we do is quite complex, we work

in small spaces and with machinery that cannot have any leaks or other losses. They have to be very clean machines and Doosan gives us that without a doubt." Illustrating this point, a very complicated job that the company carried out with Doosan excavators has been a demolition project in the heart of Pamplona at the Colegio de los Salesianos, with four teams of Doosan machines. Obras y Servicios TEX demolished this iconic building, cleared all the rubble and left an esplanade ready to be built on. About 20,000m³ of rubble in an area of 13,500m² resulted and the demolition had to be very precise so that it did not affect the adjoining buildings. The Doosan excavators were working for two months with maximum accuracy and at full capacity.

Juan Andrés Solano commented: "We also carry out dredging for hydroelectric power plants and we build wind farms; we are currently building one in Palencia and there we are working with Doosan excavators, carrying out channelling, footings, roads and earthworks. Renewable energy schemes are already highly valued projects for their ecological implications."

Positive evaluation

"My assessment is very positive and the wheeled excavators from my point of view are wonderful. The Doosan DX170W-5 in particular is an intermediate model that adapts to any task, working well in small spaces where it responds perfectly," added Juan Andrés Solano, who states that it was his machinery manager who was responsible for the purchase of the Doosan DX170W-5. As soon as he tried the machine, he went for it without hesitation. Juan Andrés Solano used it for the first time shortly afterwards and confirmed the decision. He believes it is a superfast, smooth machine. He said of the machine: "Its controls become an extension of your hand, the movements are carried out automatically in a natural way, you do not force your arms to help the machine, on the contrary, as soon as you move your hand a little, the machine already reacts. Its cab is very comfortable, spacious, with good air conditioning, unbeatable visibility of the surroundings, soundproof, robust, with simple day to day maintenance, so we are delighted with this excavator. It is dynamic, very fine when it comes to moving the bucket anywhere, it has it all."

The DX350LC-7 features Doosan's innovative 'D-

Ecopower' technology, providing operators with higher productivity and lower fuel consumption per hour, as well as smoother controls. The technology focuses on the role of the hydraulics system and demonstrates Doosan's continuous iteration of all the processes and components utilised in the company's new generation products to achieve unprecedented levels of diesel energy efficiency. The system uses nine sensors to detect the amount of hydraulic oil necessary to accomplish a specific task and precisely meter the amount of oil required rather than continuously forcing a fixed amount of oil through the system, thereby improving efficiency.

Software is utilised to electronically reproduce the full benefits of an open centre hydraulic system with very little energy loss. The hydraulic system and engine horsepower are fully optimised and synchronised, further reducing losses within the system. Improved feedback to the operator through the joystick results in improved machine control and less operator fatigue. The acceleration and deceleration of the excavator workgroup functions are smoother, allowing operators to perform repetitive swinging and digging motions with less jerking movements.

Juan Andrés Solano commented: "We are delighted with the cameras on the new DX350LC-7 crawler excavator, they give you 360° visibility. At a technological level we have appreciated a great evolution with the new DX-7 series, from the factory you have a super complete machine. New technology and programming require training and that is where Reyvena's support comes in again, training and teaching our operators how to maximise the performance of this model. As I have already indicated, the service of Reyvena and Centrocar (Doosan exclusive importer for Spain, Portugal, and Angola) is excellent, in terms of advice and support. Our mechanics are in contact with theirs, with good attention so that there is no machine downtime, which translates into profitability."

Try them to love them

"I say that to know the performance of Doosan excavators, the best thing is to get on one and try it out. Both I, who has a lot of experience as a machine driver, and my operators, always opt for Doosan, since we tried them they are always our number one option," concluded Juan Andrés Solano.



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NEW MINI AND

compact excavators

In this issue of PDi we feature, as usual, a summary of new models of mini and compact excavators for efficient material handling on the demolition work site.

Some of the featured manufacturers have already announced that new models will be released this year, which will be shown at, among other places, the bauma trade show in Munich in October. Here are some of the new machines, including some loaders and dumpers which are also ideal for demolition work.

Avant Tecno introduces two new loaders

Maybe not an excavator, but still very compact, are Avant Tecno's two new loaders. Avant 645i and 650i have the same dimensions and lifting power as the previous 600 series models, but the engine is new, with Kubota's 33kW diesel engine providing the power and torque for work which requires high pulling force or is speed intensive. The current EU Stage V emission standard for diesel engines in non-road mobile machinery requires a catalytic converter and a particulate filter for engines above 19kW. The single speed 645i and the two speed 650i are equipped with a Kubota V1505CRT diesel engine. The oxidation catalyst and particulate filter handle the exhaust after treatment and no additives (AdBlue) are required. The maximum oil flow of the auxiliary hydraulics is 75l/min. The new loaders can run almost any of Avant's hydraulically driven attachments. Hydrostatic transmission with a hydraulic drive motor on each wheel

is a familiar feature of Avant compact loaders. The 645i is equipped with single speed motors (maximum driving speed 13km/h), while the 650i has two speed motors and a maximum driving speed of 25km/h. The loaders weigh 1620kg and 1630kg respectively.

The new loaders have a certified ROPS/FOPS open cab as standard. Both the 'L-cab' and Avant's latest 'GT cab' are available as an option. The GT cab features noise and vibration isolation, heating, ventilation, and more. The Avant concept features articulated steering which allows turning without tyre marks, with the operator sitting in the front chassis to see the attachment and the working area. The low centre of gravity, together with the rigid articulation joint, is said to increase stability and provide a higher tipping load. The telescopic lifting boom comes as standard for the new models. The length of the telescope is 600mm, and the maximum lifting height is 2.84m to the hinge pin of the attachment coupling plate. This enables loading on trucks and unloading loads from high up. The hydraulic boom self-levelling system automatically keeps the load horizontal when the boom is lifted and lowered. The 600 series also has the Avant specific quick attachment plate for attachments, and hydraulic quick locking of the locking pins is also available. The hydraulic hoses of the attachment are connected to

a multi connector with over 200 attachments being available for the 600 series, which will begin production in the autumn of 2022.

www.avanttecno.com

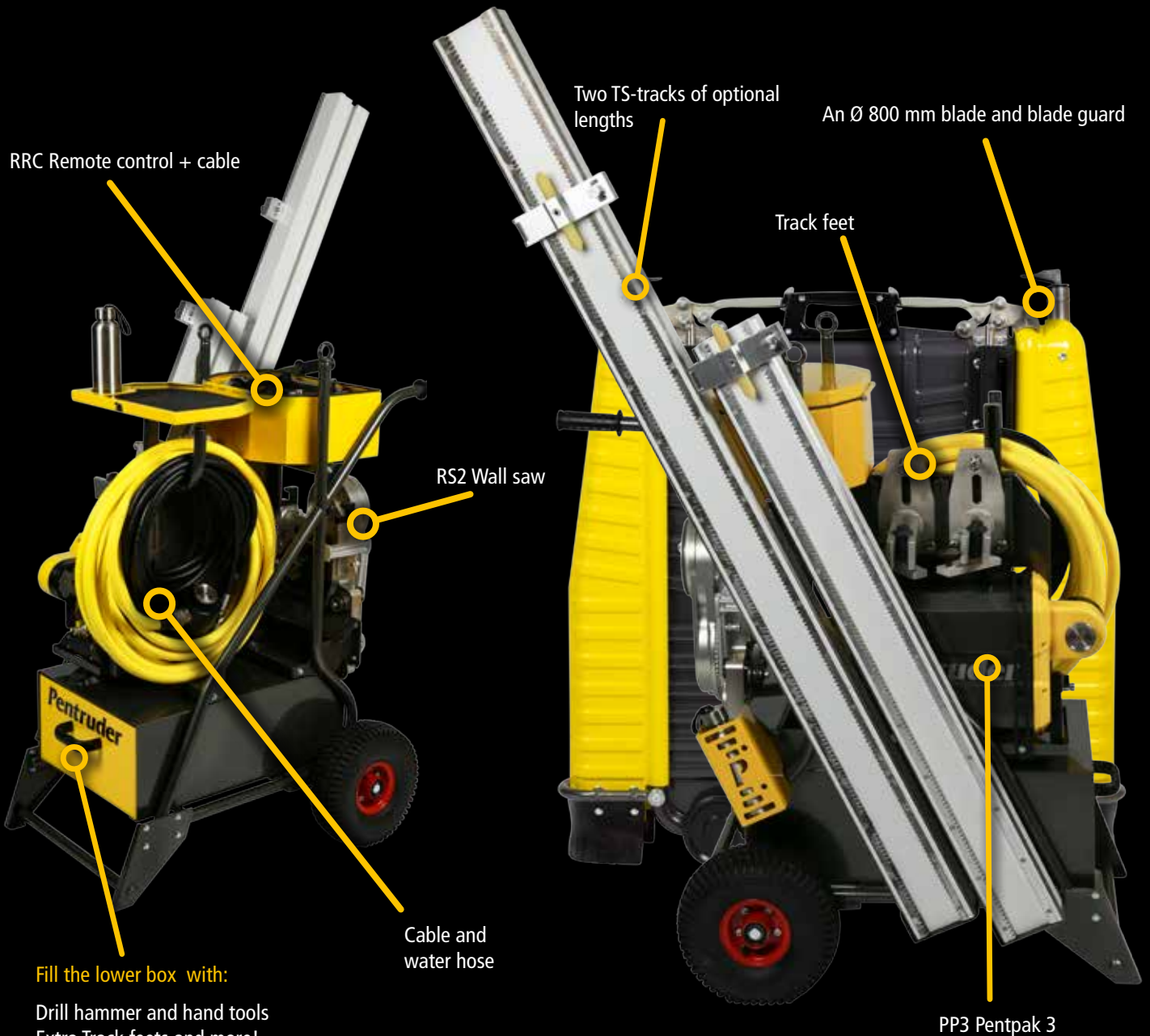
Ausa's new 3t dumper

Again, not an excavator, but a compact dumper useful for the demolition site. After completing the launch of its entire range of dumpers with higher payloads (6t to 10t), Ausa is continuing to upgrade its equipment with the new D301AHG dumper which has a 3t payload. The new dumper is designed to deliver higher productivity, a better return on investment, and improved operation safety, being ideal for relatively large scale construction works, whether for public works or quick earthworks in open spaces.

The dumper is equipped with a Kubota four cylinder 18.5kW engine with no DPF, which complies with the Stage V low emissions standard. Additionally, the machine's low weight and permanent all-wheel drive are designed for excellent off road capability and 50% gradeability. A new skip has been devised with a heaped capacity of 1,742l, which is 12% higher than the previous model. With this notable increase, Ausa is seeking to minimise the number of journeys that the operator has to make to transport the same amount of material. The power to weight ratio has also been optimised, resulting

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www.ausa.com

New 8t E88 excavator from Bobcat

Bobcat has extended the company's R2-Series of mini excavators with the launch of the new E88 8t Stage V compliant model. Replacing the previous E85 M-Series machine, the E88 has been designed to deliver outstanding performance from a compact dimension machine, provide operator comfort and excellent stability with high digging output. The R2-Series also includes new features and options such as an optional fourth AUX4 auxiliary tilt coupler line, a fifth AUX5 hydraulic coupler line as standard and a longer undercarriage. Bobcat's says that its productivity is coupled with smooth controllability thanks to low effort joysticks and intuitive displays. Large, easy opening covers provide convenient, ground level access to all service points and for maintenance checks. The proven Bobcat D24 Stage V 4-cylinder engine provides a maximum power output of 48.5kW and is designed to deliver high performance and maximum reliability. To meet Stage V emission levels, the engine uses diesel oxidation catalyst (DOC) and a diesel particulate filter (DPF), replacing selective catalytic reduction, to achieve maximum reliability, efficiency and environmental protection.

www.bobcat.com

20 new models from Case

Case has recently launched the new 'Mini-Excavator D-Series' range in Europe, featuring 20 models from 1t to 6t, including two electric models. The D-Series

is equipped with the latest technology, features and attachments for all markets and applications. The series has been designed to be versatile and agile and is supported by high levels of serviceability and reliability. Furthermore, the European Case D-Series range is manufactured at dedicated plants in Italy, benefitting from the synergies of innovation, technology, expertise and production following the acquisition of Samperana by CNH Industrial in 2021. "Mini excavators are a high growth segment and account for nearly half of all European machine sales. Case has responded to customer demand with a full line up of 20 D-Series Mini Excavators from 1t to 6t, with two electric models in the 1t to 3t range," notes Egidio Galano, director, Construction Equipment Product Management Europe, CNH Industrial. The two electric models, the first available from the first quarter of 2023, are in the 1t to 3t ranges, supporting customers operating on jobsites with demanding emissions controls and noise constraints, such as in urban locations. "One primary benefit of this extensive line up is versatility, tailor making a solution to all customer needs, whether that's different sizes for sites with restricted access or to take advantage of the huge range of attachments," continues Galano. The range includes such features as a zero tail swing and two piece booms, hydraulic and mechanical quick couplers and electric models.

www.case.com

18 new mini excavators and three new loaders from Caterpillar
Caterpillar is launching 18 new models of mini excavators on the market. The new models of mini excavators

are: 301.5 – 301.6 – 301.7 CR – 301.8 – 302 CR – 302.7 CR – 303 CR – 303.5 CR – 304 – 305 CR – 306 CR – 307.5 – 308 CR – 308 CR VAB (Variable Angle Boom) – 308 CR Fixed Boom – 309 CR – 309 CR VAB (Long Undercarriage) - 310. In addition, Cat is also launching three new 'Next Generation' compact loaders which are Cat 906, 907 and 908. "The next generation of Cat mini hydraulic excavators delivers improved performance, longer service intervals, and a lower total cost of ownership compared to previous models. From the 301.5 to the 310, design commonality gives operators a high quality, comfortable and consistent working environment," says Sam Matthews, Caterpillar product application specialist, mini excavators. Cat says that the range includes some 'industry first' features such as operators being able to adjust settings to implement speed and response. The stick steer system allows the operator to switch with the touch of a button from conventional travel lever/pedal steering controls to left hand joystick control. Some new machines are fitted with cruise control and there is air conditioning in even the smallest models. The 3.5t to 10t Next Generation models can also now be equipped with Cat 'Grade'.

www.cat.com

'New Generation' Doosan DX27Z-7 and DX35Z-7 mini excavators

Doosan Infracore Europe has announced the launch of the new DX27Z-7 2.8t and DX35Z-7 3.9t Stage V compliant mini excavators. Both new models have been developed to provide a larger working range than the previous generation machines, higher lifting capacities and digging forces. Also installed as standard is the lat-



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Wire saw with
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est version (3.0) of the 'DoosanConnect' system. The DX27Z-7 and DX35Z-7 are now the smallest machines in the Doosan range with the system. Featuring the new global styling for the next generation Doosan mini excavator range, the platform design and new upper structures in the DX27Z-7 and DX35Z-7 are said to provide increased durability/robustness. The zero tail swing design of both machines makes them ideal for work in confined spaces. Both models are powered by the Doosan D17 Stage V compliant diesel engine providing 18.4kW of power at 2,400rpm and 2,200rpm respectively (DX27Z-7 and DX35Z-7).

The DX27Z-7 and DX35Z-7 also offer high auxiliary flows of 58l/min and 74 l/min respectively, to enhance work with attachments. Newly designed cast counterweights ensure machine balance and stability when working. Long arm options are available for both models with 60kg and 100kg additional counterweights respectively. The boom swing angle and swing radius are said by Doosan to be better than or equal to other machines in their class. Visibility and workability are improved by increasing the bucket protrusion distance beyond the tracks. Placing the boom swing cylinder on the left hand side of cab allows the operator to work right



up against walls and other structures on the right hand side of the machines. The fuel tank and boom swing cylinder have been positioned at the base of the cab, with

the MCV now on the right side of the machine, improving visibility for maintaining and working on the MCV. www.eu.doosanequipment.com

HUGE BOBCAT EXCAVATOR ORDER

Otrac Heavy Equipment, the Bobcat Authorized Dealer in Egypt, has secured the largest ever order in the Middle East and Africa (MEA) region for new Bobcat mini-excavators for use in the 'Decent Life' initiative launched by the Egyptian President, Abdel Fattah El-Sisi.

The Decent Life or 'Hayah Kareema' initiative directed by the Egyptian President is focused on the eradication of poverty in Egypt. It is targeted at 4500 villages throughout Egypt, affecting 58% of Egypt's 102 million population, with the aim of transforming slums and poor villages into thriving communities with modern infrastructure.

Specialist in the Compact Equipment Market in Egypt

For use in Phase 1 of the Decent Life Project, Otrac Heavy Equipment is supplying the Egyptian Government with 80 Bobcat 4.5 tonne mini-excavators and 49 Bobcat skid-steer loaders. Otrac was chosen by decision makers for the project, because they are specialists in the compact equipment market with the market-leading Bobcat range, supported by their very high level aftersales service.

A spokesperson for the Decent Life initiative commented: "High-performing compact machinery such as the Bobcat mini-excavators and skid-steer loaders will be vital in the work involved in the Decent Life project. We chose the Bobcat brand again based on the excellent experience we have had running Bobcat skid-steer loaders, particularly their durability and reliability, backed by the superb aftermarket service provided by Otrac."

Mr Hatem Ouda, Chairman of Otrac Heavy Equipment, said: "We are delighted to keep the high level of trust allowing us to win this major order for both mini-excavators and skid-steer loaders from Bobcat for the Decent Life project. The Egyptian authorities and Otrac have a successful, long standing relationship, involving the purchase of many machines based on Otrac's performance and professionalism."

Gaby Rhayem, Regional Director Middle East and Africa at Doosan Bobcat EMEA, said: "We are very pleased that Otrac Heavy Equipment has secured our largest ever order for Bobcat mini-excavators in MEA. It is a fitting tribute to the great attention and expertise Otrac always offers their customers in Egypt."

Decent Life Presidential Initiative

The Decent Life presidential initiative - the National Project for the Development of the Egyptian Countryside - is a multi-pronged and integrated initiative. It aims to improve the living conditions and daily life

of Egyptian citizens, within a framework of integration and unity of efforts among the state institutions, private sector entities, civil society and development partners in Egypt.

The Initiative also aims to provide an integrated package of services, including various aspects of health, social and living conditions. It is a huge shared responsibility among these different parties to provide a decent life for Egyptian citizens, especially vulnerable groups. Target groups include the neediest families in rural communities, senior citizens, the disabled, orphans and children, unemployed youth and volunteers.

More than 20 ministries and entities, and 23 Civil Society Organizations (CSOs) are collaborating to implement this enormous project. This is in addition to the Egyptian youth who are volunteering for charity and development work through the Decent Life Foundation to implement the initiative's work pillars and achieve its goals in 4500 Egyptian villages.

MCIT Scope of Work

The Ministry of Communications and Information Technology (MCIT) is playing a significant role in implementing some of the initiative's pillars, including developing the telecommunications infrastructure, through installing a fibre optic cable network and covering targeted villages with mobile phone network services; developing post offices to serve citizens and promoting human development, and the new Bobcat excavators and loaders are the perfect machines for such a tough job.





HAVE A BLAST!

A shot blaster is a valuable part of any surface preparation contractor's equipment arsenal. Efficiently powering away debris and contaminants provides an important head start for making an aged concrete floor like new, while also taking the cleaning burden off other tools. Here are some of the many shot blaster machines available to contractors today.

Meet the 'Streamer S210E40R' from Impacts

The Streamer S210E40R from Impacts is a powerful, but compact and lightweight mobile machine suitable for shot blasting of small to medium areas on concrete, screed, asphalt, and some steel surfaces. The combination of a powerful wheel motor and an optimised separation system, along with a variable speed drive motor, makes the machine very efficient across its 210mm working width. Weighing 125kg, the S210E40R's 4kW blasting power produces a blasting capacity of up to 80m²/h on concrete. In order to achieve optimal blasting capacity and performance, Impacts recommends matching the Streamer S210E40R with the 'Dustcom 3003AR-LP' dust collector, a three motor, 3.3kW machine specially designed for hard jobs in surface preparation applications.

www.impactsgmbh.com

SPE's '20E Super' is serious business for the serious contractor

The SPE 20ES shot blaster is a large machine for the serious contractor, ideal for high productivity. With an electrically powered hydraulic drive, the machine is ideal for the preparation of both concrete floors and steel surfaces. Easily dismantled, the 662kg 20ES can be conveyed through an access opening as small as 600mm wide to tackle storage tanks and other items in confined spaces. The 20ES has a 508mm working

width that can be reduced for line removal and weld inspection. The blast unit, constructed of manganese steel, can handle an output of 22.5kW. The machine's dust collector is fitted with an integral compressor and reverse air jet pulsation system to allow continuous working with a self-propelled variable speed drive for complete operator control. A grille fitted into the lower separator hopper unit assembly protects the blast wheel from potential damage and from foreign objects. An optional feature allows the blast wheel to be rotated in both directions.

www.spe.bartellglobal.com

BlastPro BP-9-110V is a rugged option for small jobs

The BP-9-110V from BlastPro is an affordable, highly portable, lightweight shot blaster used to prepare concrete prior to the application of paint or coatings. With a capacity of 25.5m²/h, it is perfect for smaller jobs such as residential garage floors, pool decks, and small industrial floors. The BP-9-110V has a manually controlled travel speed and a 229mm blast pattern, making it ideal for tight spaces, as well as a complimentary unit on larger jobs for cleaning edges. The BP-9-110V strips, cleans, and profiles in one easy step, making it a cost effective labour and time saving cleaning system for small to medium sized jobs. Weighing only 55kg, the machine is easy to handle and transport, with virtually dust free

operation when connected to a dust collector. A rugged 15.2m wear resistant 12/3 electrical cord further enhances the BP-9-110V's go anywhere attributes.

www.blaspromfg.com

Blastrac products remain available pending rebrand

In June, Husqvarna introduced the first rebranded Blastrac surface preparation products since acquiring the company in late 2020. While shot blasters are part of the next wave of new products due for release in spring 2023, most existing products remain available under the Blastrac brand. Some examples of the products include the improved Blastrac 1-8DPS30 which is said by the company to be now easier to operate and handle. This economical, self-propelled 203mm shot blasting system now features drive controls on the steering handle. An 'EZ-adjust' system for the control cage is another new feature that is operator friendly. Laser cut components and the utilisation of improved manufacturing technologies, along with a powder coat finish, helps assure quality construction and long life. Powered by a 5.4kW motor, the 1-8DPS30's self-propelled operation improves productivity and promotes a more even and consistent blast pattern and surface profile. It consumes abrasive at less than 2kg/h and strips, cleans and profiles in one easy step to prepare concrete surfaces prior to application of coatings or overlays. A 10.66 cord provides extra

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distance from the power source. Ideal for industrial floors, warehouses, commercial or residential garage floors, this shot blaster can prepare up to 55.7m³/h. The 1-8DPS30 is also perfect as a complementary unit for larger shot blasters.

For larger sized jobs, the 575kg Blastrac 2-20DT-MKII is a powerful self-propelled 550mm shot blasting system that strips, cleans and profiles concrete and asphalt, or horizontal steel surfaces in one easy step. The AC inverted drive motor for self-propelled operation features an integrated brake which helps maintain speed on ramps and inclines. This improves productivity and promotes a more even and consistent blast pattern and surface profile. In fact, the 2-20DTMKII can prepare up to 450m²/h on concrete. Attached to Blastrac's BDC-99 dust collector, the 2-20DTMKII operates virtually dust free. A slide out screen in the

shot hopper facilitates the removal of large debris. It is perfect for industrial floors, warehouses, road, airport maintenance, and parking garages, making this shot blaster an environmentally sound choice for high productivity in surface preparation.

www.blastrac.com

Think big with BW Manufacturing's D-1800

BW Manufacturing has introduced its D-1800, the latest in state of the art surface preparation technology. With a chassis weighing 2,032kg, the new model is designed for industrial floors, roads and bridge decks, parking structures, aviation jobs, and many others. BW designed the D-1800 in response to years of contractor's requests to solve the messy and time consuming issue of dust removal from the machine. The hydraulic dump box gives operators the ability to dump a 208kg worth

of material in seconds. The newly designed 'BH-18 Blasthead' features the same feathered blast pattern found in BW's 406mm wide BH-16 model which delivers increased production as well as a 50.8mm wider cleaning path. Fully replaceable inner liners increase housing life, while cushioned swivel casters allow for easy manoeuvring over flat surfaces. Newly designed seals, floater plates, and a shot separator system, allow for increased output and decreased shot consumption. Other chassis upgrades include a planetary gear drive for greater low end torque and faster drive speeds. Newly formatted controls and seating position give the operator a better view in front and behind machine attachments. A new tilted hood allows easier access for maintenance as well as other internal advancements to decrease service intervals and increase production.

www.bwmanufacturing.com



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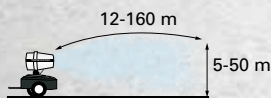
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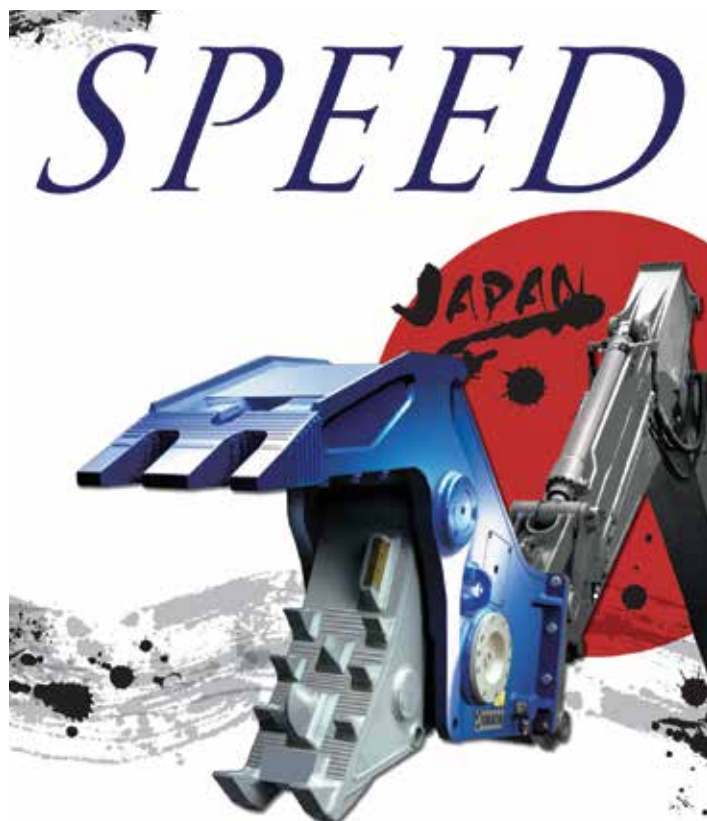
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Aquajet's Aqua Cutter 710V hydrodemolition robot increases productivity and safety for challenging concrete removal and surface preparation tasks on spillways, dam faces, intake structures, tunnels, gates, draft tubes, tailraces and locks. Photo courtesy of Walco Industries



Aquajet offers innovative solutions for hydropower applications

Aquajet, a global leader in hydrodemolition machine manufacturing, offers a line-up of cutting edge hydrodemolition equipment for concrete repair and restoration in hydropower applications.

Paired with the highly versatile 'Aqua Spine', Aquajet's 'Aqua Cutter' 710V hydrodemolition robot increases productivity and safety for challenging concrete removal and surface preparation tasks on spillways, dam faces, intake structures, tunnels, gates, draft tubes, tailraces and locks. Robots can also be used for penstock cleaning and coating removal. Additionally, the company's innovative 'Ecosilence 3.0' high pressure pump and 'EcoClear' water treatment system round out the system in a compact footprint that meets environmental regulations.

"Countries around the world are looking for safer, more productive solutions to revitalise aging infrastructure," said Roger Simonsson, Aquajet managing director. "In addition to roads and bridges, water management systems, such as dams and reservoirs, are in desperate need of repair. Hydrodemolition has proven a cost effective and environmentally friendly solution for these challenging applications."

Hydrodemolition is an impact free concrete removal method that eliminates the risk of micro fractures. This helps ensure stability of the overall structure, an important consideration in water management applications, and provides a sound foundation for concrete repairs. Hydrodemolition offers an automated solution that is faster and reduces labour. It is said by Aquajet to be up to 25 times faster than jackhammers and other handheld equipment, greatly increasing productivity for large scale concrete removal projects.

Using high pressure water jets as powerful as 2,757bar, the Aqua Cutter 710V hydrodemolition robot blasts away layers of concrete, cleaning and descaling rebar in the process. The model, one of Aquajet's largest, offers exceptional horizontal, vertical and overhead reach as high as 7m. Aquajet's unique cutting head and multi axis 3D positioning systems allow for efficient removal on even the most challenging areas including corners and spaces that would be difficult to access with hand tools. An optional extension kit system further increases versatility and area of operation. The kit extends reach for vertical and side to side applications from about

1.5m to 2.5m, depending on the model, to help operators access hard to reach areas.

Additionally, contractors can use an Aqua Spine for concrete removal in areas that are inaccessible to hydrodemolition robots. This multi modular system features a single feed beam to ensure adaptability to different applications. It adjusts from 1m to 6m and is ideally suited for hard to reach corners and curved surfaces where it can replace the use of manual labour. The modular system can be anchored to the concrete surface, such as floors, walls or ceilings, and can also be held in position with hydraulic platforms, cranes and scaffolding for increased versatility. Adding or removing spine beam sections results in an infinitely adaptable support system.

To further improve operating efficiency, contractors can use the 710V and Aqua Spine with the company's innovative EcoClear water treatment system. The compact, fully automated system treats the hydrodemolition wastewater on site and on demand. It moves as much as 20m³/h through a series of treatment chambers that reduces pH to between 7.5 and 8.5 and suspended solids to between 20 and 40mg/l. This allows for safe recycling and reuse during the process as well as safe release into sanitary sewers, storm drains or directly into the environment. The system can be set up in less than four hours and requires minimal oversight during operation for optimal crew utilisation. It also allows for the reuse of blast water in the high pressure pump as part of a closed loop system. In this way, contractors can recycle the water, resulting in significant time and resource savings on remote or environmentally sensitive jobsites. "Aquajet works closely with our customers to provide innovative solutions to make their jobs safer, faster and more cost effective," Simonsson said. "In water management applications, we've seen great success using hydrodemolition to replace handheld equipment. We've taken it a step further, as well, with our EcoClear. Now these applications are safer for the environment, too."

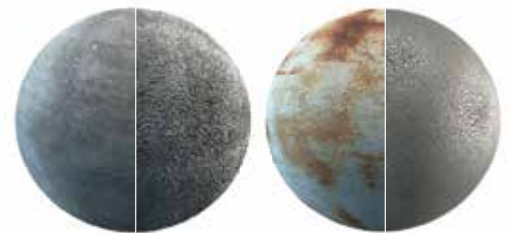


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ECOMONDO TURNS 25 THIS YEAR

Ecomondo, an event for technological and industrial innovation in the green and circular economy sector, is renewing its commitment to the environmental challenges to be pursued with the people, associations and consortia that have worked with it since the beginning 25 years ago, to achieve these shared objectives. These objectives are the cornerstone of the packed programme of conferences, debates and discussion spaces that present and anticipate new trends and data, nationally and internationally, related to the circular economy in various sectors. "We are working to ensure that an increasingly sensitive and attentive public is made aware on a daily basis of the major climate issues, to which all other strategies must be linked. This is our duty as a trade show organisation," said Lorenzo Cagnoni, Chairman of Italian Exhibition Group.

A shared path, which began in 1997 with Ricicla, has led to Ecomondo becoming an international event for interconnection and communication between players in the ecological and energy transition, pushing towards specialisation in high-potential sectors with an increasingly strong international character. The next edition of Ecomondo will be held in Rimini, Italy, from 8 to 11 November.

New Evo2 generation from Kleemann

The overload systems of the MC 110 Evo2 and MCO 90 Evo2 pursue the goal of increasing in the operational readiness of the plant in a sustainable manner by guaranteeing a crushing process that is as continuous as possible, according to Kleemann. Both crushing machines are equipped with mechanically and software-supported overload systems. With its multi-stage overload system, the jaw crusher Mobicat MC 110(i) Evo2 provides more safety with uncrushable material, according to Kleemann. If, for example, metal enters the crushing process, the crushing gap opens automatically in up to two seconds over the complete gap range. The crusher itself does not have to be stopped during the temporary overload situation, which means that the crushing chamber is empty and manual clearing of the crusher is not necessary. When the overload situation is corrected, the system then

moves back to the original crushing gap and the crushing process is continued. The pressure plate installed as a predetermined breaking point is preserved. The cone crusher Mobicone MCO 90(i) Evo2 has two different systems installed. The overload system "Tramp Release" protects the crusher against uncrushable material such as wood or metal. The bowl including the bowl liner lifts automatically to allow uncrushable material to fall through. The "Ringbounce Detection", on the other hand, reacts to an excessively high share of fines in the feed material and prevents the clogging of the crusher or sticking together of the material. Here, the hydraulic pressure of the crusher is monitored continuously. The system reacts as required and therefore prevents latent overloads. The "Ringbounce Detection" can be oriented via the control system to output ("Mixture Mode") or product quality ("Precise Mode").



NEW DX27Z-7 AND DX35Z-7 FROM DOOSAN

Doosan Infracore Europe has announced the launch of the new DX27Z-7 2.8t and DX35Z-7 3.9t Stage V compliant mini excavators. Both new models provide a larger working range than the previous generation machines, together with higher lifting capacities and digging forces.

An important feature of the new Doosan mini excavator range is the installation as standard of the latest version 3.0 of the 'DoosanConnect' system, which provides a telematics management system for the excavators by collecting data from sensors on the machines. The DX27Z-7 and DX35Z-7 are now the smallest machines in the Doosan range with this system. The models also include the new shared global styling for the next generation Doosan mini excavator range. The zero tail swing design of both machines make them ideal for work in confined spaces on construction, landscaping and utility projects.

Both models are powered by the Doosan D17 Stage V compliant diesel engine providing 18kW of power

at 2,400 and 2,200rpm respectively for the DX27Z-7 and DX35Z-7. They also offer high auxiliary flows of 58 and 74 l/min, respectively, to enhance work with attachments. Newly designed cast counterweights ensure machine balance and stability when working. Long arm options are available for both models with 60kg and 100 kg additional counterweights, respectively.

Visibility and workability are improved by increasing the bucket protrusion distance beyond the tracks. Placing the boom swing cylinder on the left hand side of cab allows the operator to work right up against walls and other structures on the right hand side of the machines. The fuel tank and boom swing cylinder have been positioned at the base of the cab.

The excavators incorporate a new dozer blade providing both a high dozer lifting height and dozer digging depth. The machines also have a new dozer blade control lever. Using the dozer lever, the operator can select between low and high speed for the levelling

blade hydraulics. Travel speed can also be selected by using the travel selector button on the dozer lever. When hydraulic oil pressure rises due to going up a slope while driving in the high speed mode, the travel speed auto shift valve automatically resets the travel speed to low, to enhance the operator's driving convenience and to reduce machine stress.

As well as high performance, versatility, durability and ease of maintenance, the excavators feature a new larger, roomier cab, providing excellent operator comfort and controllability. A new high comfort cab has a full glass entry door to maximise operator visibility on this side of the machine from inside the cab. The high luminance LED work lamps on the cab further enhance visibility and additional LED lamps are also available as an option. The enhanced heating/HVAC system provides more nozzles to direct warming and cooling air, including both front and rear pillar nozzles that together help to improve the system performance.



Doppstadt to showcase electric motors for its machines at Ifat

At Ifat, the Doppstadt Group showcased the 'Inventor' 6 with electric drive. Furthermore, this resource saving alternative to the conventional diesel engine will also be standard equipment for the company's 'Methor' and its screens. The electrically driven variants stand out due to their extraordinary economic efficiency, as well as being extremely durable to help to keep operating and inspection costs down.

"By collecting and recycling valuable resources, the activity of the recycling and waste management industry contributes substantially to the environment and climate protection. The technologies used must comply with this task," explains Dominik Niehaus, product manager at Doppstadt Umwelttechnik GmbH (DUG). This means that the recycling industry makes very high demands on the solutions as regards sustainability and resource protection. In these fields, the drive system is of special importance. Niehaus adds: "When developing new machines, we focus on efficiency and profitability." With the integration of electrified drives in the machines, Doppstadt now offers users an attractive alternative to the customary diesel engine.

At Ifat, the environmental technology specialist showcased the Inventor 6 with electric drive. The multipurpose single shaft shredder Methor and all the Doppstadt drum screens are also available with electric drives. The process engineering is based on proven Doppstadt technology. Compared to diesel engines, electric drives stand out due to their low operating costs – a decisive advantage in uncertain times. Inspection costs are also lower because the service intervals can be extended significantly. In the case of the drum screens for instance, the maintenance of electric variants is scheduled after 500 operating hours instead of 250.

What is more, the new drive option offers users multiple benefits. There is no need for time consuming routine work such as refilling diesel and AdBlue. Therefore, machine productivity is increased considerably. Unlike conventional diesel engines, the electrically driven machines produce no exhaust emissions, a benefit especially for the work in halls. Users also profit from advantages in the approval of new machines and sites.



BHS rotor impact mill with new hammer design optimises output quality

BHS-Sonthofen has launched its proven rotor impact mill but which now features a new hammer design and maintenance concept. The high performance crusher with a vertical shaft is used to recycle metalliferous composites and industrial waste for fine processing. Customers benefit from significantly improved output quality, easier maintenance and a higher degree of machine availability.

Recovering valuable metal concentrates from various composites and industrial waste is a challenge. Users have been achieving good results with the BHS RPMX rotor impact mill for many years, especially when utilising it for fine processing. The machine is a high performance crusher with a 'one of a kind' impeller rotor that, combined with a toothed anvil ring, processes the feed material with remarkable intensity. The rotor impact mill can process a wide variety of metalliferous residues, including materials such as stainless steel and cable strands, which were previously considered problematic.

BHS has further optimised the stable, horseshoe shaped hammers while increasing their strength at the same time setting them apart from the machine's previous design. "The results and findings of a wide variety of tests conducted over the past few years have been incorporated into the new design," says Manuel Huber, who is in charge of designing the machine at BHS-Sonthofen. "We studied how geometric changes to the hammers affect the output. Our tests show that making the front of the hammers wider makes the processes for disaggregating and shaping the respective material run much better, which significantly increases the output quality," Huber explains further. Customers therefore benefit from even better output quality and less wear at the same time. When processing critical material, this increased output quality translates to better throughput performance, as the number of times the material must be passed through the machine can be reduced.

In conjunction with the more stable, robust hammer design, the new maintenance concept ensures customers enjoy a higher degree of machine availability and easier, more effective maintenance. "A special tool for dislodging the hammers, known as a mandrel, was integrated into the design to facilitate the replacement of cast iron percussion hammers that are stuck in place. We also integrated a load hook to aid the replacement process. In contrast to the previous method, the new load hook can be hooked into the hammer to easily lift it out or set it in place using a crane. Now, personnel no longer have to expend extra energy lifting the hammer which reduces the physical strain on employees," said Huber.

With its new design and maintenance concept, the durable BHS rotor impact mill offers customers investment security and ideal conditions for the secondary crushing and fine processing of metalliferous fractions. With the rotor impact mill, BHS-Sonthofen aims to set a new precedent in the recycling industry. The company sees itself as a technology leader for the recycling of metalliferous composites, and has the ability to use tests to map various processes at its test centre on a production scale and individually adapt them to respective customer requirements.

The RPMX rotor impact mill is one of the exhibits BHS-Sonthofen displayed at the Ifat in Munich, Germany from 30 May to 3 June 2022 (Stand B4-351/450).

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RM HYBRID SAVES UP TO 25% ON FUEL COSTS

Sharply rising fuel prices, legal requirements for emissions, business expansion and environmental protection are some of the many reasons for switching to hybrid machines. As a pioneer in electrification, the RM Group has now been producing crushers with electric drives for 30 years. This expertise is integrated into RM hybrid crushers and screens. Two of these crushers and an RM MSC8500e mobile hybrid screen were on display at Hillhead in June.

Saving a quarter of fuel costs is an extremely beneficial proposition, especially in times of rocketing fuel prices. To accomplish this, RM hybrid crushers use an electric motor to drive the crusher rotor. The electric drive compensates for peaks in power demand during operation, allowing the diesel engine to run at a constant speed without fluctuations. The company says that this results in much lower fuel consumption of up to 25%, which is based on field data from RM crushers recorded by the new 'RM XSmart' fleet management and condition monitoring tool. Even if the RM hybrid machine is running on diesel 100% of the time, the company says it will still save up to 60% in annual operating costs compared to a hydraulic machine because in addition to lower fuel consumption, costs for hydraulic oil and servicing are also reduced.

Paul Donnelly, managing director of Red Knight 6, and Ian Burton, sales director of Taylor & Braithwaite, believe that low running costs have a massive impact on the total cost of ownership of the machine. That is why, despite the higher initial cost of hybrid systems, they often pay for themselves in just a few years. Both of the RM Group's UK sales partners were demonstrating and explaining the RM 100GO! hybrid to visitors at this year's Hillhead show. They added that if a hybrid crusher is combined with a hybrid screen, they believe that fuel savings of up to 30% may be achieved. The combination that was on display at RM Group's stand at Hillhead which consisted of the RM 120X crusher and the RM MSC8500e hybrid screen.

Emission free crushing and screening with just one energy source

With a hybrid crusher or hybrid screen, it is also possible to operate purely electric and emission free. This

opens up completely new application possibilities, such as working on tunnel construction sites, inside buildings and in city centres. RM crushers are said to now comply with the strictest legal requirements in terms of exhaust, dust, and noise emissions. For example, an RM customer in Latvia recently purchased an RM 100GO! hybrid - the same as the one displayed at Hillhead - to crush dolomite electrically and to be able to meet the high legal requirements for road construction. Thanks to the intelligent networking of the RM 'Next Generation' machines, a crusher such as the RM 120X hybrid can also power the RM MSC8500e, or both can be plugged into the mains power supply.

Effective fleet management with the RM 'XSmart' app

Whether it's fuel consumption, maintenance intervals, throughput, operating hours, or pinpointing the location of RM equipment, the RM XSmart is designed to be the digital assistant that keeps all this information available at any time using a smartphone, tablet or computer. This RM Group fleet management and condition monitoring tool uses real time machine data to simplify the everyday work of machine operators, workshop managers, rental fleet managers, deployment coordinators and owners. "We don't want our customers to waste time doing paperwork for their machines. We want our customers to make the highest profit, and we want to provide them with the best service. That's also why we are focusing on digitalisation," says RM CEO Gerald Hanisch. With just a few clicks, the data can be broken down to a defined time period. Because the operating hours are recorded automatically, it is no longer necessary to manually log hours at regular intervals for invoicing or to provide evidence for authorities.



New tools and attachments for the 'Methor' multi tool

Designed as a multi tool, the Doppstadt Methor ensures high flexibility for a range of tasks and materials. Thanks to its modularity, the single shaft shredder can easily be adapted to various requirements. At the Ifat in Munich from 30 May to 3 June, Doppstadt showcased new tools and attachments for the multi tool.

"The Methor is our all-rounder for the processing of small, medium and frequently changing material flows," explains Moritz Müller, product manager at Doppstadt Umwelttechnik GmbH (DUG). "Thanks to its high flexibility as regards the range of applications and materials, it meets the diverse needs of our customers efficiently and profitably." The shredder is used, for example, in the processing of commercial and industrial waste, bio waste, C&D waste, waste wood and bulky waste. It also handles mono charges such as mattresses reliably.

To offer users maximum flexibility, the Methor was designed as a modular system. Customers can combine various components to create an overall solution that best meets their requirements. Therefore, the single shaft shredder can be equipped with different teeth sizes - 'S', 'M' and 'L'. Several variants of counter blades are also available. "In the market, all the components have proven to be most reliable. In combination with the well thought out shredding concept, our robust shredder performs all of its tasks reliably even in the most adverse conditions," Müller explains. Moreover, Doppstadt showcased a newly developed roller for C&D waste processing at the Ifat show.

Thanks to the attachments available for the Methor, which are available now, customers can operate even more flexibly. From now on, the shredder may be combined either with a double drum, a spiral shaft screen, a star screen, a wind sifter or a magnet, to create an efficient processing solution. All the attachments are replaceable within a few minutes. Doppstadt also offers a variety of optional equipment for the Methor, including having the shredder available on a hook lift or crawler chassis. Users can also choose between a diesel or electric drive.

For the operators, the robust shredder also offers many benefits. The shredding system can be changed within 45min, so that new material flows can be processed. The efficient direct drive enables a precisely adjustable performance and undisturbed operation.





DUST SUPPRESSION CANNONS 2022

Worksite safety, particularly regarding dangerous airborne particles, continues to be a concern of the industry, with decontamination during the pandemic especially becoming a focus for many. On this theme, this year sees many new products from a variety of manufacturers, including Generac, Dehaco and Raincanon.

Raincanon presents the 'D-Series'

Raincanon recently launched its new D-Series of dust suppression and mist cannons, which includes the D35, D45, D60 and D80. They are used for dust, odour, and air pollution control in different applications. The D35 is connected to a standard 16A socket and can be powered by 400V/50Hz from the main grid or from a generator. A function to reduce power peaks at start up is built in as standard in the control system. The flow rate is adjustable to suit different applications, and the water mist droplet size is between 20-200microns. Standard features include electric tilt, automatic main valve and automatic oscillation of up to 360° to distribute water mist over large areas. The D45 is connected to a standard 32A socket, and can be powered by 400V/50Hz or 480V/60Hz from the main grid or from a generator. A function to reduce power peaks at start up is built into the control system. The flow rate is adjustable, and the

water mist droplet size is between 20-200 microns. Standard features include electric tilt, automatic main valve and automatic oscillation of up to 360°.



The D60 is connected to a standard 63A socket, and can be powered by 400V/50Hz from the main grid or from a generator. A function to reduce power peaks at start up is built in. The flow rate is adjustable, and the water mist droplet size is between 20-200 microns. Standard features include electric tilt, automatic main valve, and automatic oscillation up to 360° to distribute water mist over large areas. The D80 has a 55-80m range, and can be a mobile or permanent installation. The D80 is connected to a standard 63A socket, and can be powered by 400V/50Hz from the main grid or from a generator. A function to reduce power peaks at start up is built in. The flow rate is adjustable, and the water mist droplet size is between 20-200 microns. Standard features include electric tilt, automatic main valve, remote control and automatic rotation of up to 360°.

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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

Electric dust suppression units from Generac

Generac's DF15000 and DF20000 provide a cost effective midsize solution to dust. These electric dust suppression units operate with 36kW or 56kW generators that power the electric motors propelling a fine water droplet mist onto the job site up to 130m away. These machines cover 325° of rotation and an area of around 10,000m³ to 30,000m³. Other features include automatic oscillation, an integrated booster pump for control of water pressure and flow rate, and a control panel for monitoring of pressure, temperature, and flow levels. The DF20000 and DF15000 are highly portable on a compact trailer with a gen-set and optional 4,500l water tank to help solve daily dust control issues. The machines are designed to keep dust particulate down in demolition sites, scrap/recycling yards, mining stockpile areas, aggregate yards and quarries, larger solid waste facilities, ADC applications, landfill odour control, composting facilities, irrigation, livestock management, product storage management, construction sites, power plant pond de-watering and air humidification projects. The

models are available to rent or purchase in the United States exclusively from Company Wrench.

www.companywrench.com

Meet the Dehaco 'Tera' dust control units

Dehaco's dust control units use a rotor instead of nozzles, which, according to Dehaco, prevents two major drawbacks: blockages and excessive water consumption, with dirty water or hoses often leading to blocked nozzles. The opening of these nozzles is as small as the tip of a ballpoint pen, around 0.5mm. This means any object larger than this can block the nozzle. The smallest opening on the Dehaco Tera is 3mm and any blockages in the water flow can be removed from the rotor, which allows the work to continue uninterrupted, with the system being designed so that the rotor always works regardless of the volume of water. The 400V range of misters spread water droplets with water flow rates of 100, 500, 1,000 or 4,500l/h. The water flow rate does not affect performance and the droplet size can be adjusted. To prevent airborne bacteria such as Legion-



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naires' disease, Tera dust control units can be fitted with UV-C lamps. These lamps destroy the bacteria before they reach the rotor. The power and quality of the UV-C light can be measured, with a visual indication given of the performance. Dehaco manufactures a complete range of dust control units, with ranges from 5m to 90m. www.dehaco.com

Air Spectrum presents its zero emissions dust suppression system

The Air Spectrum 'Ecotech' range took three years to develop, and is designed to provide a zero emissions functionality, long life battery capability and quiet operation. The recently launched 'Ecotech Rotary Atomiser' (RA) dust suppression solution can operate for approximately eight hours on one single battery charge. Using rotary centrifugal energy, the Ecotech can be programmed to provide up to 15m of misting at a variety of droplet sizes, according to the need on site. Like the rest of the Air Spectrum misting range, it is designed to work with the company's range of non-toxic chemical additives for odour control and disinfection as well as dust control.

Its 1,125l bowser tank allows a run time of between six to eight hours, depending on flow rate settings. The 'Rotary Atomiser Pro' is the big brother to the 'Rotary Atomiser Classic', and it too can be used for dust suppression, odour control and disinfecting. It operates with an on/off switch providing a longer throwing distance of 20m of atomised mist from its 1,125l bowser tank, and is suitable for indoor and outdoor applications. It is available with an 110V or 240V generator. Other solutions by Air Spectrum include the Rotary Atomiser Classic and its fixed position variant, which can be wall mounted or ceiling mounted. They both have a range of 15m to 20m with direct mains water connections.

www.airspectrum.com

New atomised mist cannon from BossTek

Operators sometimes mitigate particulate emissions using a sprinkler or hose to saturate a material's surface. The higher the wind, the more water pressure is required to break through the shear, resulting in greater amounts of water filling the surrounding work area. BossTek states that hoses typically require manual labour, and

both sprinklers and hand held hoses contribute to high water bills. Operators of the new 'DustBoss DB-60 Surge' are now able to match the water requirements to the application, as BossTek states that the booster pump delivers as much as 27.5bar of water pressure to the centre nozzle, with an output of 140-378 l/pm. The model features water propelled at high velocity from a centre nozzle, combined with a fan and misting ring system. The cannon uses jets that surge through the wind for over 76.2m to suppress surface and airborne dust.

The system combines the power of an industrial fan, misting ring and heavy duty barrel with the reach and force of a central high pressure spray nozzle. The pressurized spray resists wind shear and uses the force of the wind to fragment and carry the droplets. The first stage in the three stage system is suited for moderate days for airborne and surface coverage. It uses the 30,000cfm (849.5cmm) fan and misting ring to deliver fine atomised mist droplets. For windy days, stage two features a pressurized stream delivered by the central nozzle. On high wind days, operators can utilise the fan, misting ring and centre nozzle. The versatility and



coverage area is extended with the 359° horizontal oscillation range and 0-50° vertical throw angle. The operator can raise the spray angle and direct the 76m spray for high reach applications. The oscillation range is controlled with the remote control. It can run potable or non-potable water, as it is equipped with two inline 30mesh, 595micron filters.

www.bosstek.com

New coating for Dynaset's 'HPW' pumps

Chromate is a widely used surface coating in machine designs. Its benefits include good gliding characteristics, corrosion resistance, and good durability. It has been used in the industry for a long time, and it became an industry standard for protecting and hardening surfaces. The chromate surface will not cause any harm to the user or environment when it is on the product although the coating process does as producing coatings that include Cr6+ chrome are carcinogenic and hazardous to health and the environment. Since 2017, making a coating that includes Cr6+ needs a permit and is highly regulated.

Dynaset HPW hydraulic high pressure water pumps' central body deals with high oil pressures, and the pump requires hard surfaces to withstand these pressures and also, as we are talking about piston and cylinder elements, it means the friction needs to be as low as possible between them. This is the reason why chromate has been used in the past. However, Dynaset has now decided to change the surface coating in its pump centre bodies. The new Cr6+ free surface coating will now be used in HPW800, HPW1000, and HPW1600 pump model centre bodies. The new coating has good gliding and corrosion resistance properties just like its predecessor, and it is also hard enough to withstand the pressures in the unit, according to Dynaset. The new surface coating has good gliding properties, which will increase the seals' durability.

www.dynaset.com

'Demolitor' 70 from WLP

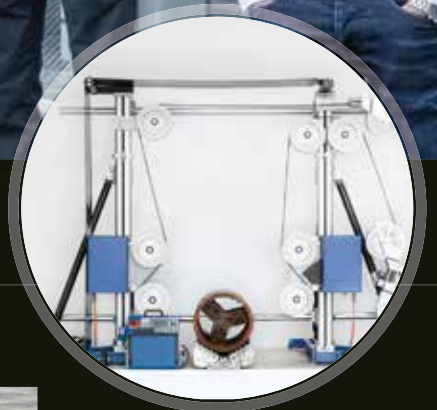
WLP Systems has introduced the new Demolitor (D) 70, an upgraded version of the previous model

that now adopts a design in line with the models of the Demolitor family. The water pump is no longer external, but a submersible type integrated into the frame, which acts as a reservoir. This configuration guarantees half the power consumption compared to an external pump, according to WLP, plus the advantage that the cannon has a more compact design. The new ducted fan system integrates a fan with side tips, and a renewed design of the flow rectifiers is said to guarantee up to 60m of jet with 11kW of installed power. The swing is freely programmable, covering a spray arc of 360°, and thanks to the new mechanical gearbox with operating lever, the machine can also be rotated manually without the need for electricity. The new D70 is equipped with a main solenoid valve with integrated filter, which is easy to maintain and ensures that the cannon can be used either from a tank water supply or from a pressurised line. Like all WLP machines, the D70 is also equipped with a radio control for remote and safe operation.

www.dustsuppression.wlpdust.com



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Simplicity prevails as Epiroc introduces the new 'V' cutter

With its V shaped design, the latest drum cutter from Epiroc has been designed to set a new standard in trenching and quarrying. The company says it is a seemingly simple solution with extraordinary effectiveness that enables energy savings of up to 40%. In a world where advanced technology evolves at an unprecedented pace, it feels reassuring that some revolutionary product development is self-explanatory.

"The efficiency issues connected with trenching have been met with advanced, but expensive solutions. We're pleased to present an alternative that will save time and money in virtually every aspect, from investment to energy and wear on the carrier. And it's all achieved by the angles of the drum," says Gordon Hambach, global business manager for Hydraulic Attachment Tools at Epiroc.

The reliability, robustness and ease of use of the Epiroc drum cutters have been taken to a new level with the VC 2000. Thanks to the V shaped design, that enables a cut with a flat base, no material is left untouched between the drums. Where a regular drum cutter must move side to side to create an even trench, an approach that causes extra wear on the carrier arm, the VC 2000 can achieve the same result by just going straight. It basically works like a bucket, which makes it easier to use, friendlier for the carrier and uses a lot less energy and is less time consuming. When taking the reduced downtime and maintenance into account, the efficiency savings are said to be even more attractive.

The distinguishing features of the classic Epiroc drum cutters, such as the robust spur gears, adoptable high torque gear motor and the 'QuickSnap' retaining system for fast and easy pick changing, are all to be found with the new VC 2000. It even comes with the 'Pro' bracket that leads all hydraulic hoses through the centre of the extension arm and out of harm's way as standard. Mechanical and hydraulic rotatable brackets are also available as well as a dust preventing water spraying system. 'Hatcon', a monitoring system that keeps track of operating hours, location and service intervals and presents that data on virtually any screen via 'MyEpiroc', is another option that is designed to increase overall effectiveness.



Experience Sennebogen's big recycling future at Ifat 2022

As big and with as many innovations as ever before, Sennebogen says it is once again setting significant standards for the future of the recycling industry at Ifat and presented, among other things, new battery powered material handlers.

Amongst the products being launched by Sennebogen are a 19t battery powered material handler, the 22t recycling material handler 8.22 from the new G-series as well as the 4t telehandler 3.40 G that has just been launched on the market. These could be found at the company's 300 m³ + booth in hall C5, No. 241/340 and at the VDMA outdoor area (which featured live demonstrations, biomass and construction material recycling).

With the new battery powered material handlers, Sennebogen has added to its electric series with free moving models that combine the best of both machine concepts. This is due to its mobile battery models enabling the operator to work even when the machine is connected to the power grid for recharging.

The 4t telescopic loader 3.40 G, which was recently launched on the market, also celebrated its trade show premiere. The completely new development is not only designed to be visually appealing, it additionally provides impressive performance data and a stacking height of 7.70m, as well as its unique selling point, the 'Multicab'. The company says this is the most modern cab of its kind and can be raised to an eye level of 4m to provide what Sennebogen says is the best all round visibility in recycling operations. Sennebogen also be presented another model from its new machine generation portfolio, the 8.22 G-Series. This 22t new edition is said to not only impress with its great system performance and reach, but also offers maximum operator comfort and safety, as do all machines in the G series.

Visitors to Ifat were also able to see the power of Sennebogen machines in action. At the VDMA Demonstration Days, Sennebogen recycling experts demonstrated their skills in biomass recycling and construction materials recycling.

MEET THE 'VIKING'

To provide contractors with efficient floor preparation equipment for outdoor applications, surface preparation company National Flooring Equipment has released the Viking. This will be the most powerful ride on scraper in National Flooring Equipment's product offering and is designed with precision, safety and performance in mind for use in large scale outdoor applications such as roadways, bridge decks and airport runways.

The Viking is a 2,585kg ride on scraper built for removal of tough outdoor applications including asphalt, waterproof membranes, sport court material and many others. Powered by a turbo diesel engine and featuring three blade holders, operators can use a combination of one, two or three tools that can be adjusted to any angle to easily remove tough, well bonded materials.

Traditionally, surface preparation work in outdoor applications is dependent on uncontrollable factors, such as weather and daylight, meaning operators only have a few hours to complete it. To increase uptime, the Viking is designed for use in outdoor applications, featuring an enclosed cab with heating and air conditioning, headlights and

windshield wipers for optimal visibility in inclement weather. It also has a digital display, rear view camera and light safety curtain to ensure operators can work safely and efficiently while on site.

"We began developing the Viking after being approached by the UK highways industry to help find a more efficient method to scrape bridge decks," explained Nick White, sales director EMEA at National Flooring Equipment. "Contractors found that the traditional method was noisy, dusty and aggressive (as) they must be careful to remove as little concrete as possible and this is not always possible using traditional methods. By developing a powerful, yet agile, ride on scraper like the Viking, contractors can safely and quickly remove material with less strain on the bridge and its joints."

The Viking is also built with the comfort and safety of the operator in mind. It features a fully enclosed cab with a positive pressure system to keep dust and worksite by products out. The noise dampening cab also improves the operator experience, enabling them to focus on the work and be on the machine for longer as the cab is equipped with a phone holder, USB outlet and cup holder.



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STRABAG RELIES ON 'LIKUFIX' FROM LIEBHERR

One of Europe's largest construction service providers, Strabag SE from Austria, has been successfully using the fully hydraulic quick coupling system Likufix from Liebherr for several years now in addition to several Liebherr construction machines and attachments. Strabag uses the fully hydraulic Liebherr quick coupling system for all existing and new Liebherr machines, as well as for most machines from other manufacturers.

Apart from its comprehensive portfolio of earthmoving machines and material handlers, Liebherr-Hydraulikbagger GmbH also provides numerous attachments appropriate for the respective application, as well as different configuration levels of quick coupling systems. A user of such equipment is Strabag SE, an Austrian based international group, whose comprehensive range of services includes structural and civil engineering works as well as road construction. In addition to deep foundation machines and tower cranes, the company also uses various machines from Liebherr's earthmoving division. Due to the complex and versatile range of services provided, a frequent change of attachment is generally unavoidable especially with hydraulic excavators. Machine operators regularly change the attachment in day to day site work. Therefore, for productive, efficient and safe construction site operation the Likufix fully hydraulic quick coupling system from Liebherr has been used successfully for several years by Strabag.

Integral component of future machine equipment

According to Martin Philipp, head of investment and procurement at Strabag BMTI GmbH & Co. KG, the majority of the wheeled and crawler excavators in new investments are equipped with the fully hydraulic quick coupling system Likufix. This concerns both Liebherr machines and machines from other manufacturers as the quick coupling systems from Liebherr can be used with machines from all manufacturers. For Strabag, it is a worthwhile additional investment as the efficiency of hydraulic excavators is boosted significantly thanks to the quick change of attachment.

Positive experiences

Likufix has already been used successfully by Strabag since 2007. The fully hydraulic quick coupling system impresses in terms of high product quality as well as

easy servicing and maintenance. Liebherr continuously optimises these aspects in the course of further product development. For instance, with the new HD generation of quick coupling systems the steel structure was optimised compared to the predecessor series, whereby operational life could once again be significantly increased. The new generation was also designed in view of optimised maintenance so that maintenance work can now be carried out even more simply, resulting in shorter downtime on the construction site.

Likufix is said to not only increase efficiency, but also safety in day to day construction site operation. This is an important factor for Strabag which places great importance to safety in its operations. The attachment is changed from the operator's cab at the touch of a button which ensures that nobody is in the danger zone during the change of attachment. A unique advantage of the quick coupling system is exhibited here: instead of the pressure control of the locking cylinder, each hydraulic Liebherr quick coupler has electronic position sensors as standard which monitor the position of the locking bolt. Optical and acoustic warning informs the machine operator when the quick coupler is opened. In addition, the machine operator can confirm whether the quick coupler is safely connected to the attachment thanks to good visibility of the left locking bolt. Another proximity sensor monitors the correct position of the attachment in the locking position, thus ensuring enhanced safety in further construction site operation.

Fully hydraulic

"The fully hydraulic quick coupling system Likufix is a hydraulic quick coupler combined with the hydraulic block Likufix, which was developed by Liebherr in 2000," highlights Frederik Kössinger, sales manager of Attachments and Quick coupling Systems at Liebherr-Hydraulikbagger GmbH.

NOW AVAILABLE FOR SITE DUMPERS

Mecalac has announced the international roll out of state of the art telematics connectivity across its site dumper portfolios. The latest models can now be equipped with MyMecalac Connected Services either as an option from the factory or as a retrofit kit.

Helping operators to minimise downtime and optimise productivity through real time equipment data, MyMecalac Connected Services telematics provides a smart solution to enable remote fleet management. From insight into fuel consumption and productivity, to service reminders, maintenance alerts, remote diagnostics and geo-fencing capability, the innovative solution keeps fleets running at full speed and full efficiency. Comprising of an in-depth web portal and handy mobile app, the service solves a number of industry pain points. It spotlights machines in need of immediate care and allows technicians to stay one step ahead of potential breakdowns. The company states that MyMecalac Connected Services provides owners and operators with an incredibly powerful tool to manage their machines. Rolling out the state of the art solution across its site dumper portfolio, the company believes will help construction professionals to further increase equipment uptime and maximise productivity.

Alongside telematics capability, MyMecalac Connected Services also includes a start-up digi-code unit. Effectively an immobiliser keypad, the device requires operators to enter a specific code before starting the engine. With the ability to assign a specific code to each user, change codes at and time and programme expiration parameters, the digicode provides complete control of machine access. With equipment security paramount, especially for hire fleets, the inclusion of the start-up digicode system ensures complete peace of mind. Mecalac is focused on streamlining the ownership experience and bringing game changing technology to its site dumpers.





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Be a waste transformer with Lindner

'Be a waste transformer' was Lindner's call, but also its promise to the waste and recycling industry at Ifat 2022 where Lindner highlighted the importance of the circular economy. Lindner has developed, produced and installed shredders and system solutions, both mobile and stationary, to process waste streams. Now more than ever, the focus is on energy efficiency, productivity and the economically viable transformation of the old into new. This includes plastics, waste wood recycling and the production of high calorific solid recovered fuels. The technology is developed in house, by Lindner's R&D team, yet Lindner's customers also benefit from its cooperative research projects. One of these is the lead project, 'circPLAST-mr', carried out with universities and other industry parties to find solutions for mechanical recycling.

The EU's Green Deal, specifying recycling quotas, and the drive to keep secondary raw materials in the cycle for as long as possible, are shaping the waste management industry just as much as the shortage of skilled workers, rising energy costs and the demand for higher productivity. Lindner provides individual and comprehensive system solutions, which make it possible to separate raw materials



from various waste streams. The non-recyclable material is transformed into another raw material – medium and high calorific alternative fuel – in the secondary shredding process and with the additional use of quality monitoring.

Lindner states that especially with regard to the recovered plastics, more waste processors are recognising the additional value that can be created. Together with Lindner Washtech, Lindner has been operating in this segment for many years. The cornerstone for plastics recycling is the coordination of the four process steps shredding, sorting, washing and drying. In this way, it is possible to install comprehensive plants (to date, more than 200 plastics recycling plants have been put into operation) to recycle PE-LLD films, PE-HD bottles, PP household goods and so forth. Europe's first independent research centre, the National Test Centre Circular Plastics, has also chosen Lindner lines.

Under the project management of the Johannes Kepler University Linz, eleven scientific and fourteen company partners, including Lindner, are working on how to obtain high quality recyclates from used plastics. Experts from all areas of plastics recycling have been brought together to make use of possible synergies. In total, the research programme is divided into seven work packages. Lindner has taken the industrial lead in the material flow processing work package and joining with Alpla in order to be able to sort and clean packaging better. The latest technological innovations are used here, which are not yet available on the market.

In the research project, different tasks are being investigated and researched in several test series. In this way, it should be possible to optimise plastics recycling and optimally adapt Lindner's solutions to the market and customer needs.



Lindner's 'Komet Series 3' and 'Fire Prevention System'

Lindner presented the Komet Series 3, a series of shredders for secondary shredding, at Ifat 2022. This has such features as the automatic belt tensioning system (ATB), a dust protected drive unit and new software. While the new software features increase productivity, the ATB aims to ensure constant power transmission. In addition, compressed air protects the drive unit from contamination, and the adjustments to the control panel support intuitive two handed operation.

Lindner also featured at the show the in house developed Fire Prevention System (FPS). Highly flammable rechargeable batteries and lithium ion batteries can still find their way into the material flow. If these batteries are damaged during the shredding process, this can lead to a dangerous build-up of heat which, without an early detection system, is often only spotted in the depot chamber, often with dramatic consequences.

The TÜV-approved Lindner FPS provides a solution to this problem. Self-cleaning infrared sensors mounted on the discharge belt scan the temperature of the materials on the conveyor belt. If the temperature exceeds defined parameters, the infrared sensors activate the cooling nozzles, which eliminate the danger via a spray mist. In cases where extreme heat develops, the conveyor belt is switched off, and the potentially hazardous materials, mostly damaged batteries, can be removed manually. In addition to a terminal box that indicates the status of the FPS, the scope of delivery also includes a control cabinet that contains the software, the necessary ports, and a reserve water tank in case the water supply gets interrupted.

KOBELCO LAUNCHES NEW SK550DLC-11 IN EUROPE

The new Kobelco SK550DLC-11 replaces the SK550DLC-10, which launched in 2018. The SK550DLC-11 features Kobelco's Next system for high elevation and foundation demolition work and enable easy transportation between projects. While the SK550DLC-11 is a common base machine, the Next system attachments means that the machine can be adapted for multiple applications on the jobsite. The machine has four ultra-long attachment configurations and can work to a maximum height of 27.5m. The separate boom configuration is suited for tackling lower floors of tall buildings and has a maximum working depth of 6.2m. The reinforced attachments can be changed on site. An important benefit of the Next system is the low storage height of the ultra-high attachment when collapsed. The height of the attachment in its stored position is approximately 2m, which means that it can be transported between projects on a standard trailer. Other factors contributing to transportation include a hydraulic extension/retraction mechanism, which can reduce the width of the crawlers to 2.98m in compliance with some European transport regulations, and the two-part counterweight, which can be separated more easily

than an integrated counterweight, according to Kobelco.

The SK550DLC-11 also benefits from the use of an electronically controlled environmental engine, which is compliant with the European Stage V emission regulations. Engine output is 10% or more higher than the previous model, according to Kobelco. The Auto Idle Stop function enhances efficiency by avoiding unnecessary fuel consumption. Like Kobelco's conventional Generation 11 excavators, the SK550DLC-11 follows Kobelco's Performance XDesign concept for operator-based operability and wellbeing. The Kobelco-branded Grammer air suspended seat offers shock absorption. It also includes a wide four-inch arm rest that allows the operator to take a comfortable position, and a seat heater. The cabin's large 10-inch colour monitor offers a menu screen which facilitates reading of important information. The screen also provides bird's-eye and eagle-eye views from the machine's cameras. The demolition-specification cabin is fitted with security glass and radial grid guards across the front and top windows and can tilt up to 30-degrees. If the attachment comes within a certain distance of the cab, an alarm and warning on the screen alert the operator, and the attachment stops. The



working radius and stability of the machine are calculated from the position of the attachment, and the operator is warned with an alarm when stability is compromised. The reversible cooling fan helps to keep the machine's cooling system clean by blowing out dust automatically. The urea lines, which are electrically heated, help to avoid issues at low ambient temperatures.



LINDNER'S LATEST GENERATION OF SHREDDERS

Lindner's new 'Urraco 4000' model series is available with a diesel or energy efficient electric drive and ease of access to the maintenance and drive compartment. In addition to its many mobile versions, it offers universal application options, such as bulky waste, C&I, C&D, and light scrap. With its 2,000mm shaft length, the Urraco 4000 series offers a mid-point between the Urraco 75 and Urraco 95 shredder series. Its highlights include an optional energy efficient 'E-drive' with 'Powerlock' quick connectors; mobility options such as a base frame, tracked chassis, or semi-trailer, and

maintenance simplifications, including the shaft fast exchange system (FX).

The E-models of the Urraco 4000 series are designed to be not only the answer to demands made by the EU, but also from the waste and recycling industry worldwide for CO₂ friendly mobile shredding solutions. The two E-models offer either a base frame (Urraco 4000) or a tracked chassis (Urraco 4000 EK). During the development stages, two things were designated as vital: energy efficiency and high performance. Moreover, it is simple to connect the machines to the mains via Powerlock quick connectors.

The Urraco 4000 EK model features a built in self-sufficient power unit. In the realm of waste wood processing, the additional use of the 'Zeta Star 4000 E' screen, also electrically operated, ensures optimal grain sizes at all times, according to Lindner. The extended working area, which is created by the combination of shaft length and axle spacing, is designed to allow problem free filling by a wheel loader. The optimised intake capacity, combined with the patented twin shaft cutting system, also enables shredding of bulky and large volume materials.

Focus on fine processing of metal containing residues and battery recycling

As a leading provider of technology for the recycling of metalliferous composites and industrial waste, BHS-Sonthofen was focusing on the fine processing of metal containing residues, such as those derived from automotive recycling or electrical and electronic scrap, at this year's Ifat (booth B4-351/450). A second focus for the company was the process for recycling lithium ion batteries, which has been tested in various reference cases. BHS presented exhibits related to this process, such as a rotor impact mill with a new hammer design, a horizontal dryer, and a separating table.

The company's goal is to recover valuable resources. To this end, the Sonthofen based group of companies continuously invests in future oriented technologies and novel process solutions that enable customers to extract maximum value, especially when recycling metalliferous composites and industrial waste. At BHS' appearance at Ifat 2022, the focus was on the fine processing of various metal containing residues, such as automotive shredder residue (ASR), e-scrap, and incinerator bottom ash (IBA). "BHS-Sonthofen has further developed its fine preparation process with extensive tests, thus further improving output quality," explains Daniel Weber, head of the Recycling & Environment division. "The process works just as well for ASR, taking into account material specific requirements, as it does for the fine processing of all other metal containing materials such as electrical and electronic scrap or cable remnants."

New hammer design

The heart of the fine preparation process is the rotor impact mill, which BHS was presenting with a new hammer design at the trade show. The RPMX type rotor impact mill is a high performance crusher said to be unique in its field, setting standards in fine processing and metal recovery with its impeller rotor and special anvil ring. The machine reliably separates material composites and removes cable sheathing and other substances that adhere to metals. The new hammer design of the rotor impact mill significantly optimises disaggregation and shaping of the output while simultaneously reducing wear. Due to the improved output quality, fewer or shorter passes are required, which results in higher throughput. In addition, BHS was presenting a new maintenance concept for the machine that simplifies maintenance and inspection work by the operator and, in combination with the new hammer design, ensures high machine availability.

Proven, innovative recycling process

The company's second focus is on the recycling of lithium ion batteries. For this purpose, BHS has developed a complete mechanical solution that focuses on a high recovery rate of the resources it contains. The process has already been tested worldwide in existing reference plants run by customers. Thanks to the consistently inert process, from the crusher to the dryer, hazards such as fires or the escape of toxic gases can be avoided. Trade show visitors could

expect to see the HTC 140 type horizontal dryer used in this process at Ifat. In the process, the dryer applies a vacuum and heats the pre crushed batteries to safely evaporate potentially toxic components. The crushed batteries are no longer hazardous after the drying phase.

Separation technology and pre shredder

From the new technological field of separating, sorting and classifying technology, a separating table from BHS and RW Recycling World was on display at the show. BHS-Sonthofen has held a stake in the Swiss company since 2021. This cooperative venture allows products for separation, sorting, and classification technology to be integrated into processes from BHS in order to offer solutions from a single source, for example, in the fine preparation process. With the depth of added value and process competence thus expanded, the Sonthofen based group of companies has further strengthened its position as a technology leader for the recycling of metalliferous composites and industrial waste.

BHS rounds off its trade show presence with the virtually exhibited 'Rapax' pre shredder. The powerful machine, which was launched last year, can be used universally. In its various designs, it is suitable for processing metal fractions, commercial and industrial waste as well as construction waste. With this machine, BHS combines design and function and aims to take pre crushing to a new level.



EvoQuip launch new product at Hillhead

EvoQuip recently exhibited at Hillhead in Buxton, England, where the company displayed a new 'Falcon 820' screen and ran live working demonstrations of a 'Cobra 230R' impact crusher. EvoQuip states that it provides a solution for on-site recycling in urban areas with all its products being easily transportable from job to job.

The Falcon 820 is the latest addition to the EvoQuip range of screens. Its rugged design enables it to handle materials such as sand and gravel, crushed stone, coal, to name but a few. It is a compact finishing screen with a double deck and a two bearing 2.44m x 1.2m screenbox, whilst its compact transport envelope allows it to be transported between sites. The Falcon range consists of the Falcon 820, Falcon 1220 and Falcon 1230 inclined finishing screens. The Falcon plants combine scalping, screening and stockpiling into one self-contained unit. With the screen angle range, EvoQuip's Falcons provide efficient classification of fines. EvoQuip states that ease of movement and rapid set up are also key features of the Falcon range.

The Cobra 230R impact crusher features an integrated afterscreen system with a 2.44m x 1.2m post screen which, according to EvoQuip, ensures the required product specification is achieved with oversize material either being recirculated back to the crusher or else stockpiled. The ability to detach the complete afterscreen system, including the oversize conveyor, provides the option of either running the machine in standard mode or transporting it separately.

The Cobra range incorporate such features as ground level access to the engine, hydraulics, service and refuelling points as well as hinged radiator pack, hinged diesel tank and a product conveyor that can be lowered or removed for maintenance. The operator also has the ability to move the machine using the remote control from the excavator cab without shutting down the crusher.

Mantovanibenne presents the 'Eagle 3' new generation of shears

Mantovanibenne specialises in equipment for construction machinery, possessing expertise in the development and production of demolition and earthmoving equipment, and has now introduced the Eagle 3 new generation of shears.

"Since the first SH shear produced in Italy in the early 90s, we have worked to produce reliable and efficient attachments in all operating conditions. Our shears are used on crawler and mobile excavators, on demolition equipment, in scrap recycling yards, but also in extreme temperature environments and also in offshore and subsea applications," says Paolo Mantovani, CEO of Mantovanibenne.

A team of industry specialists with decades of experience have worked on the development of the completely new, compact and extremely powerful shears. In more than 10,000h of testing, the new shear

has been used in applications ranging from the primary demolition of massive steel structures to the secondary demolition of heavy vehicles. The Eagle 3 is designed to maximise the duration of use and can be maintained without complex interventions. The central pin of the shear, made up of sturdy components that increase its durability, can be easily removed directly on site.

The technical characteristics of Eagle 3 are said to consist of a shorter frame, a 'unique weight to performance ratio' and greater stability making the shear ideal for use in multiple applications without compromising on productivity. The shears have been designed to

increase the cutting force on all models and the new design of the mouth provides a larger opening. The jaws are cut with a high pressure water jet to avoid possible weakening due to high temperatures, whilst the upper jaw has been completely redesigned to operate with stability and is made from a single element without welding. It is further equipped with a new type of interchangeable piercing tip that is said to provide greater protection and reliability, with easier maintenance, reduced costs and downtime.

The cylinder is inverted to protect the rod inside whilst the enlarged bore develops more power by accelerating the cycles (opening and closing speed). The rod is completely forged from a solid piece of metal, for superior resistance compared to a conventional cylinder, and is equipped with premium quality seals that can last up to 3,000h. The most heavily used parts are made from interchangeable Hardox 500 steel plates installed on the jaw profiles which allows the shear to resist any impact without altering their structure, maintaining a very high level of wear resistance.

The first five models are now available, while the next two will be released shortly. The smallest model, the SH250R, weighs 2,600 kg, being suitable for excavators from 24t to 29t, while the largest is the SH2200R, has been designed for the most massive demolition operations. The other models in the range are the SH320R, SH490R, SH600R, SH800R and SH1500R.



CONJET ON A STRONG PATH

Conjet is making strong progress with a 50% increase in sales, a strengthening of human resources and distributor network as well as a tripling of the production area at its new premises.



The Conjet team at the new premises in Stockholm, Sweden.

A lot has happened at Conjet in recent years. PDi magazine has on several occasions reported on various developments that have happened within the organisation at the Swedish manufacturer of hydrodemolition equipment.

New purpose built premises

Recently PDi magazine visited Conjet's head office and manufacturing plant to see Conjet's new and purpose built premises. The new facilities are three times the size of the old one. It has a 1,800m² area for manufacturing, warehousing and service, of which 1,500m² is a dedicated production area. There are also 800m² of offices and training facilities.

"We had a great need to find new and larger premises as we were very cramped in the old premises," says Ola Wagner, who is the new COO (chief operations officer) at the company since mid 2020.

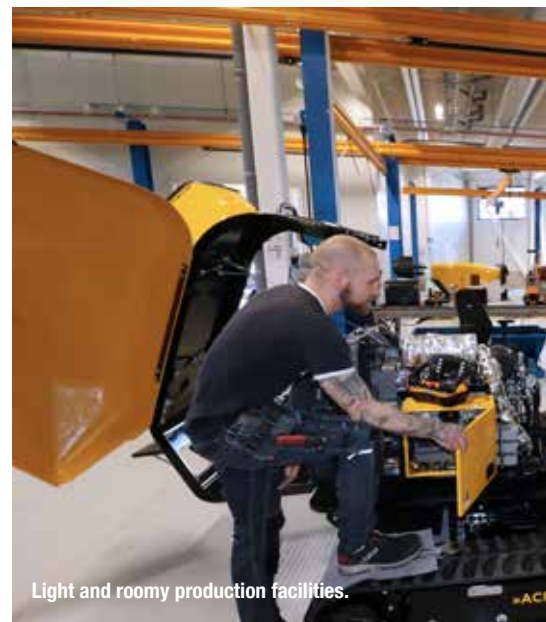
"In the new premises, we have a significantly better flow in production and warehouse management. Everything is more divided, and the premises give us completely different possibilities. We can also grow in these premises," adds Robert Kreiberg, who is CEO for the company.

The new premises are located in Österhaninge, just south of Stockholm and close to the old location. The intention at first was that the company was going to expand the old premises but there were difficulties with building permits. Conjet then more or less stumbled on the new premises in the spring of 2021, and in November last year the move to the new location began.

Today, there are 27 employees within Conjet, of which there are 24 in Stockholm and the rest located at the office in North America. PDi has continuously informed readers through the magazine about new hires at the company, but we can now take the opportunity to tell about additional newcomers like Rebecca Nilsson, Marketing Manager, Mariusz Stabryla, Production Manager, Karl Fritz, Warehouse manager and Simon Christensson who is responsible for orders and logistics. Rather new in the company is also Ola Sylvan who is product development manager.

Logical structure of production

The 1,500m² large production premises, which has a ceiling height of 6.5m, has been designed to have a natural flow in production that makes assembly smoother. When Conjet first moved into the premises,

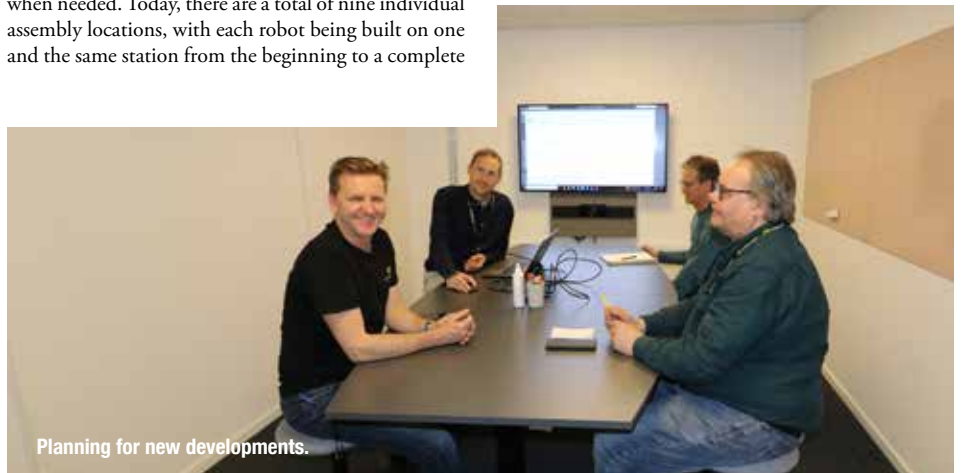


Light and roomy production facilities.



all the traverses connected to the assembly were first installed so that it would be easy to move materials and components. The traverses have a lifting capacity of up to 1,200kg. Bearings with picking places for the components are conveniently located and allow easy access when needed. Today, there are a total of nine individual assembly locations, with each robot being built on one and the same station from the beginning to a complete

machine. But the idea is that in the long run, when the robots become more modular, that assembly will take place at several different stations. In the long run, it will



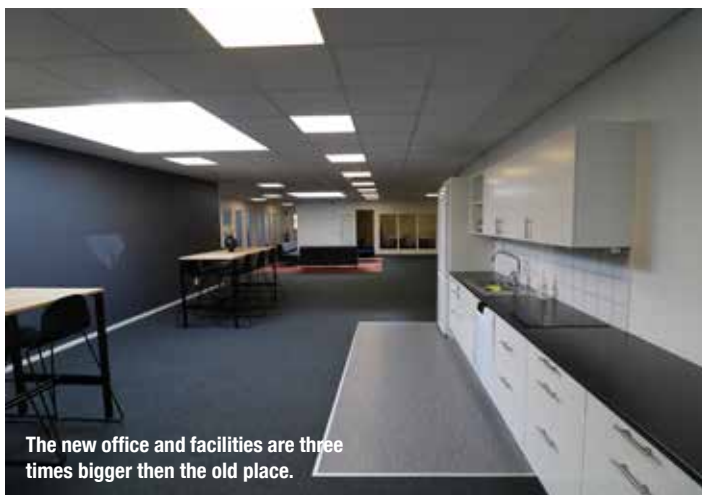
Planning for new developments.



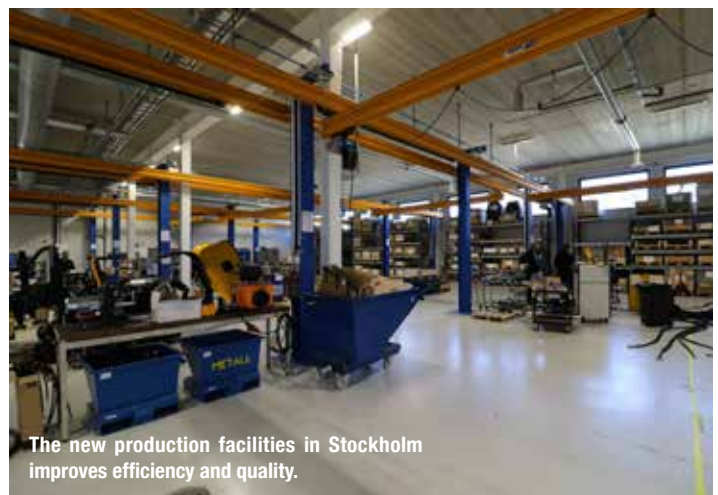
The new service center in Stockholm.



Plenty of space for education and training.



The new office and facilities are three times bigger than the old place.



The new production facilities in Stockholm improves efficiency and quality.

also be possible to expand to shift work during periods when demand requires it. Next to the production areas there is also a complete service workshop of 200m² with a demonstration area directly connected outside. There is also a large machine washing room.

Strong sales increase

Since Conjet was acquired from the original owners, not only the workforce and the production area have increased, as sales have also grown. In 2020, the company had sales of €5.71M and in 2021 sales has risen to just over €8.42M - a 50% increase in sales. Robert Kreicberg does not really want to reveal what the company is aiming for during current year but says: "We are a growth company and such companies aim to increase every year by at least 20%." The increase in sales may not reach 50% in 2022, but if one can make an estimate, sales may reach €12.5M.

This continued increase is based on the need for concrete repairs around the world. Many concrete structures are severely neglected, not least in the United States. In the USA, there are lots of bridges, viaducts, roads and not least tunnels, that are in dire need of renovation. A country that in the 1980s had perhaps the best road network in the world, has in many States turned into an infrastructure disaster area. There are for

instance 541 highway tunnels in the United States, most of which are in very poor condition being built between 60 and 110 years ago. This means that there is a major need for hydrodemolition services here.



Robert Kreicberg, CEO at Conjet.

"The need for concrete repairs is today great all over the world and we have the equipment. It is our ambition to make Hydrodemolition the standard for concrete repairs," says Kreicberg, who adds that Conjet has changed a bit in its policy over the past two years. "Our focus today is entirely on building robots and other equipment for efficient concrete repairs, and at the same time establish strong partnerships with pump manufacturers and manufacturers of water purification systems. As for the pumps, it is mainly German Hammelmann we work with and our water treatment system comes from the company Reprotex."

Strengthening the distributor network

In addition to investing in building the company's organisation internally, Conjet is also actively working to review and expand its distribution network around the world. Today, the company places much higher demands on its distributors and recently has added a number of new distributors around the world, including the new distributor Doornbos in England and Ireland. Today, Conjet has about 15 distributors, of which ten are new, with the focus on Conjet's marketing and sales being on Europe, North America, Asia and Australia.

www.conjet.com

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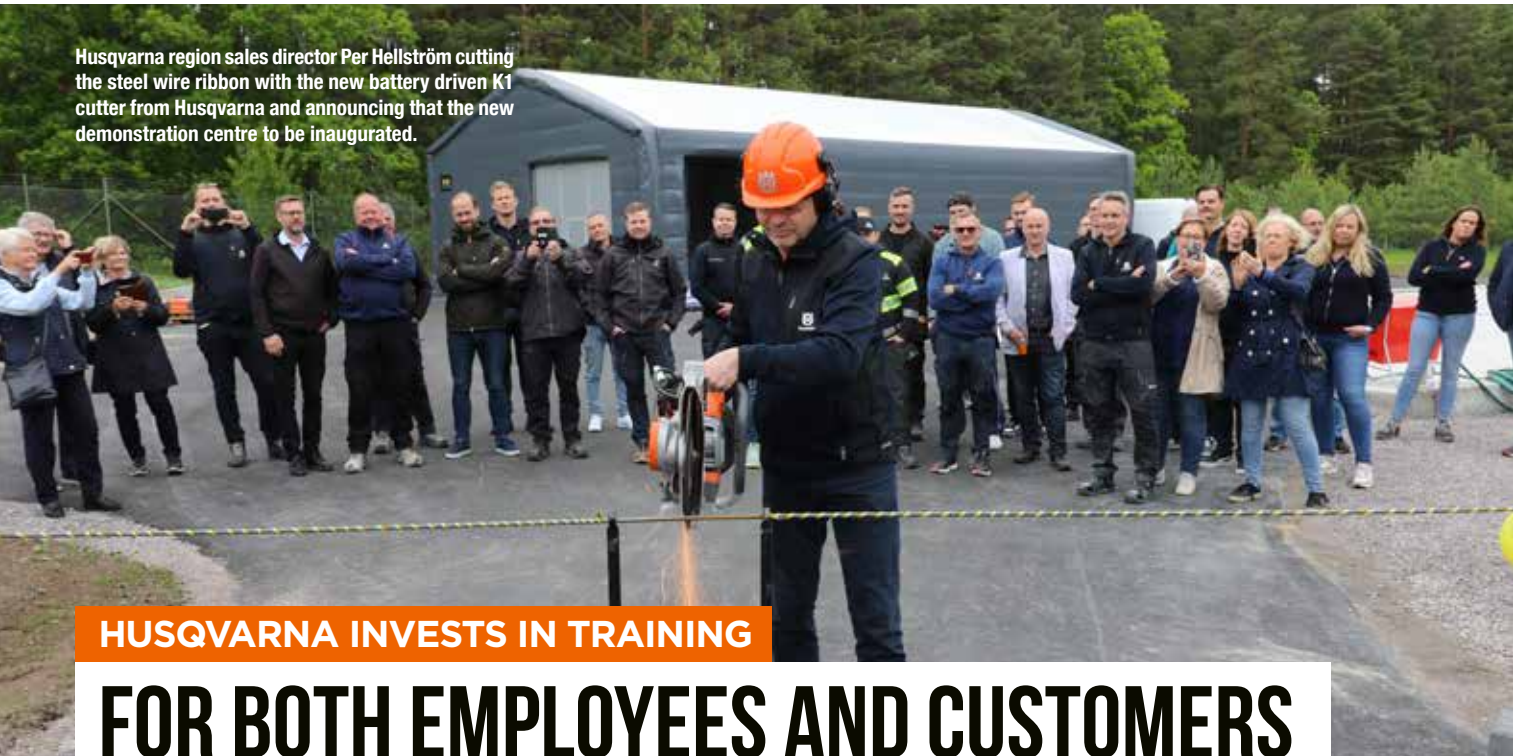
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Husqvarna region sales director Per Hellström cutting the steel wire ribbon with the new battery driven K1 cutter from Husqvarna and announcing that the new demonstration centre to be inaugurated.



HUSQVARNA INVESTS IN TRAINING

FOR BOTH EMPLOYEES AND CUSTOMERS

Husqvarna has expanded its training centre in Söderköping to be able to train its customers more efficiently in the management of their machinery fleets.

Between 9-13 May, Husqvarna Construction Products conducted an intensive week at its facility in Söderköping, Sweden. This consisted of several days of product training for its employees, a golf tournament for the employees as well as an 'open house day' and the inauguration of the new demonstration facility in Söderköping.

Training and golf tournament

The week began with three intensive training days where the employees undertook a thorough review of all new products in the range. There was also an opportunity to get the feel and test the machines in a real environment. Thursday 12 May was mainly devoted to a golf tournament between employees, which was held at the Klinga Golf Club south of Norrköping. Maybe the tournament is the start of a tradition where also clients will be invited to compete in the future.

Open house

On Friday 13 May, an open house was held at Husqvarna's facility in Söderköping. Many clients were invited and several contracting companies visited throughout the day, as well as representatives from the municipal management of Söderköping town. The facility is strategically located right at the entrance to Söderköping and hard to miss. This was originally HTC Sweden's head office, manufacturing facilities and training centre. When Husqvarna acquired HTC, the premises were taken over, which already had a large training centre located at the premises.

Husqvarna Construction Products has expanded the training centre with new exterior test surfaces for its trowels, milling machines, shot blasters and compactors. A large hall has also been built where customers can test all of Husqvarna's machinery and equipment for concrete cutting. There are also areas for the training of operators of demolition robots. Inside the training centre, there are already test surfaces for the range of machinery for grinding and polishing concrete floors and other types of surfaces. There are also auditoriums for theoretical training. A new service centre has also been built in the interior premises for repairs and servicing of all of Husqvarna's broad product range.

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EDA'S LONG AWAITED

reunion in Paris

No it is not a barber shop band; it is the new board of directors 2022 for EDA at the gala dinner in Paris.

After more than two years of the physical absence of annual conventions there was finally time for the European Demolition Association to meet up, with the 2022 annual convention being held in the heart of Paris.

After more than two years of absence from physical meetings, EDA, the European Demolition Association, was finally able to organise its annual convention again. During two years of pandemic, the board, working committees and annual meetings have taken place digitally. Digital meetings have proved to be good alternative to physical meetings, but to be able to meet and interact with people in the flesh is really what most people prefer.

Meeting in several locations of Paris

The EDA's annual meeting 2022 was held on 9 and 10 in Paris. In total, more than 200 delegates, suppliers and speakers attended the meeting. The conference began on 9 June at the Sofitel Paris Baltimore Tour Eiffel Hotel, where workshops and lectures were held throughout the day. The day began with a workshop with the headline, 'Equipment and Technology for DDR', where several suppliers had the opportunity to present tools, carriers, quick-couplings for tools, long reach demolition machines and more.

After lunch, a lecture was given on circular economy in the construction and civil engineering sector by Johan Vyncke, Rilem, Elma Durmisevic, Laboratory for Green Transformable Buildings, and Miguel Ángel

Pérez-Penalava, Hercal Diggers. The day continued with EDA's general assembly for its members. On the evening of 9 June, a welcome cocktail party was held at The Renaissance Paris Nobel Tour Eiffel Hotel.

Conference day

On 10 June, the official opening of the annual meeting and conference was held at 9a.m. at The Pavillon

Dauphine Saint Clair. Directly adjacent to the conference hall was an exhibition hall where more than 24 suppliers and sponsors had their stands. Gold sponsors of this year's meeting were Caterpillar, Rotar, Epiroc and Sennebogen. Silver sponsors were Liebherr, ACDE Europe, Trevi Benne, Steelwrist, Lehnhoff, Indeco, Husqvarna Construction Products and MBI. Bronze sponsors were NPK, OilQuick, KTEG, AMS, Arden Equipment, Dehaco, Kemroc, Komatsu, Volvo and Demarec. PDi Magazine of course was among the exhibitors as usual and also covered the convention. The meeting participants were able to visit the exhibition during coffee and lunch breaks.

The conference day began with the official opening of a meeting by the president at the time, Francisco Cobo. A new president had been elected at the general assembly the day before, which was to be announced on the evening of 10 June. The day continued with the first session until the coffee break. Fulvia Raffaelli from the European Commission's DG Grow spoke on EU policy for a circular economy. William Sinclair from Safedem talked about best practices and technical challenges for demolition with explosives. Holly Price presented a case story with the heading, 'Challenges for DDR in the UK and how to overcome them'.



Stefan Panseri, new president of the European Demolition Association.



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Picture showing Francisco Cobo (left) handing over the presidency to Stefano Panseri.



The day then continued with Karol Baran from Group Tree on the subject of innovations and smart demolition practices in Poland. Souhila Paré from SEDDR spoke on the subject of 'New asbestos' challenges in Europe'. Vittrio Omini from the demolition contractor Omini Demolizioni Industriali, gave an interesting presentation about the demolition of the Morandi Bridge in Genoa, Italy. Lunch followed which was served in the exhibition hall, and at the same time delegates had the opportunity to visit the exhibitors' stands.

Then the day continued with Riccardo Viaggio from CECE speaking on the topic, 'The twin transitions seen from the machinery sector'. Brian Priestly from Priestly presented the case story, 'Rapid demolition of the Gardiner Expressway ramp'. Another case story was presented by Anna Chtorkh from Curium,

namely, 'Decontamination of hazardous substances at industrial facilities'.

Following a coffee break and a visit to the exhibition, the day continued with Thomas Kasper from Porr Umwelttechnik who spoke on the subject, 'The contribution of recycling to a circular construction branch - Austrian approach'. David Assaf from Greenmix Benny & Zvika spoke on the topic, 'From demolition to production of secondary raw materials'. Patrick Frye and Ivan Poroli from cadem and Despe, respectively, delivered a lecture on the collaboration in the demolition of a train station in Lyon, France. That was the end of the professional programme for this year's EDA convention.

Gala dinner at the Eiffel Tower

Around 6.30p.m. in the evening, it was time to leave

for the gala dinner held in Gustave Eiffel Hall, which is located on the first floor of the Eiffel Tower. Guests were bussed to the Eiffel Tower and taken by lift up to the first ledge which offered a fantastic view of a beautiful and clear Paris. Before the actual dinner, a welcome reception was held, which was opened by EDA secretary José Blanco. The dinner was sponsored by the French manufacturer of attachments, Arden Equipment, and a speech was delivered by Daniel Dupuy, sales and marketing manager for Arden. During the dinner, live music was performed and the evening ended with the traditional EDA's new president, Stefano Panseri, being welcomed by the leaving president Francisco Cobo. There were speeches by both Cobo and Panseri and Panseri's young daughter surprised with a warm speech about her father.

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