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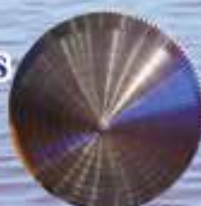
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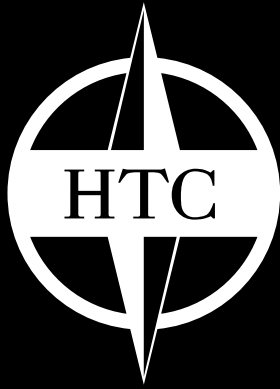
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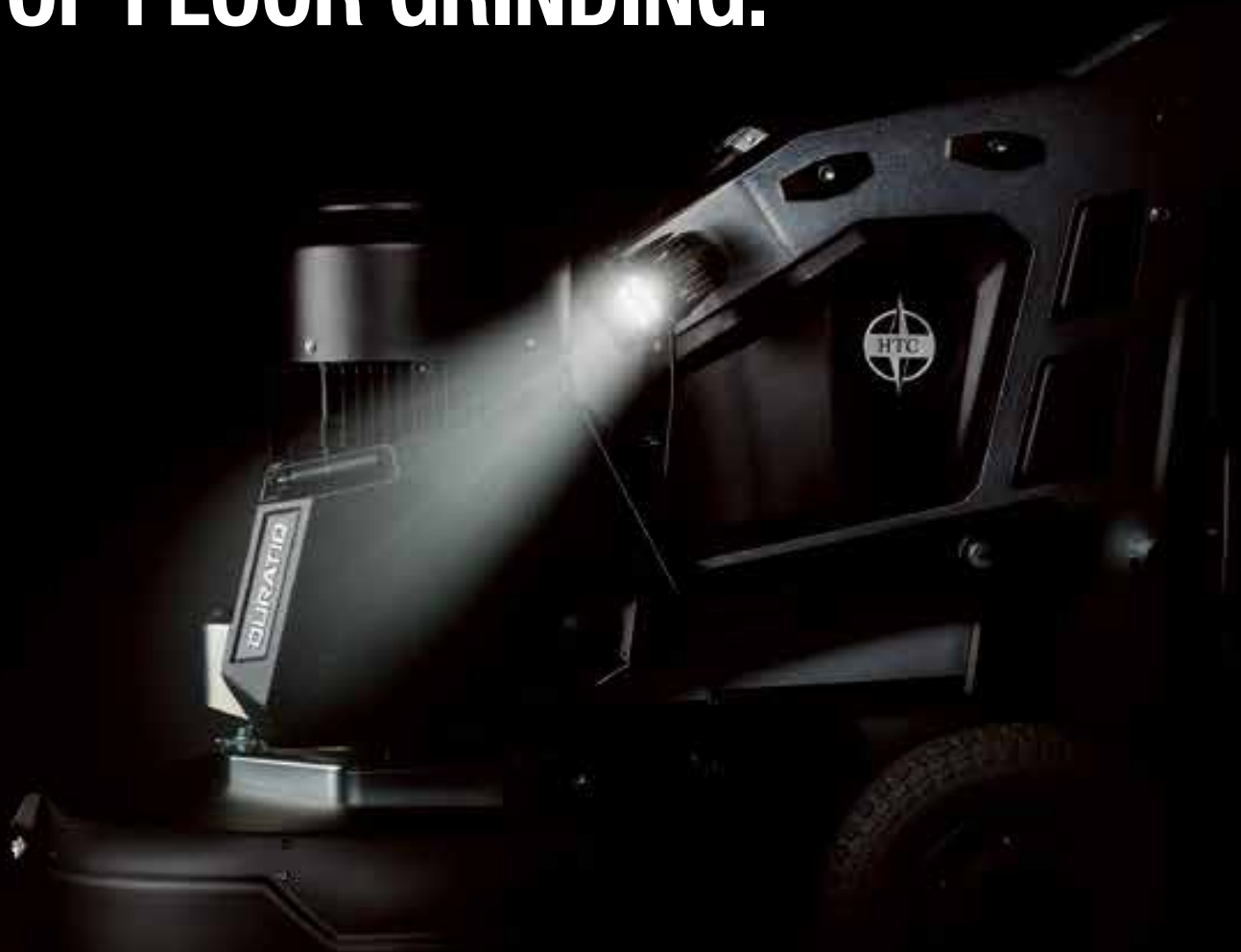
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Valuable Banksy painting removed in the UK

Dear Reader

This is another full issue of PDi with many interesting and informative articles. Business is quite good in many parts of the world when it comes to demolition, concrete cutting and recycling. The reason is of course that the construction industry is doing well in several parts of the world.

I have just returned from 10 days in Japan and China, and will report about this very interesting trip in the next issue of PDi. Japan is really a fantastic country. It is clean and nice, with hard working and devoted people and the country has a very low crime rate, which makes it very safe to move around, even in big cities.

The construction industry is quite busy in Japan at present and one reason is that the Olympic Games will be held in Tokyo in 2020. On my trip I also made a stop in Beijing, a city with a population of around 22M officially and 30M in-officially. China has been criticised for their falling economy. Yes it is declining, but from a very high growth rate. The current growth rate is estimated at a little over 6%, which is still very high compared to many other countries. My home country Sweden has a growth rate of around 2.8% and the US about 1.2% and UK about 1.7%. Only India is showing stronger progress with their rate currently at 7.1%. There will be extensive coverage of my trip in the next issue of PDi which will have an Asiatic theme.

In this issue there are several special features about wheel loaders, demolition attachments, demolition cranes and cutting torches. We are also publishing an interesting story about the new floor grinder from HTC, the Duratq Series, which was launched globally at the beginning of September. There are also many news releases and some interesting job site reports. PDi magazine also attended the annual European Demolition Association's convention in June, which is also covered in this issue.

There is also a quite unusual story about the removal of a valuable painting by the famous UK graffiti artist Banksy. The UK concrete cutting company Truecut Diamond Drilling was asked to carefully remove and dismantle the painting from the wall of a building so it could be preserved and installed in another building. This interesting story is featured on pages 68-69.

All together another quite interesting issue.



Jan Hermansson
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Words from the IACDS President

Great coming year in the UK despite Brexit!

Despite huge uncertainty in the UK caused by the recent EU referendum, I remain very optimistic about next year for our industry.

Over here, none of our 'experts' saw the result coming. Bookmakers were saying right up until the late hours that we would vote to remain in the European Union and all of the forecasts to that point suggested we would stay. However, the British public had other ideas and not only did the result have an immediate impact on us politically and economically, the whole world has been affected by what the UK media is calling 'Brexit'.

All that said, nothing has actually changed yet, apart from the Prime Minister. The UK government has not yet officially informed the EU of the intention to want to leave - I am sure they might have heard about it already - and, therefore, it really is business as usual. From my point of view and the industry around the world, I certainly do not want anyone to think that we will suddenly become more inward looking. We place great value on our ability to network and share ideas with European and global partners and believe that has helped to strengthen all of us.

However the political situation pans out in the coming months and years, I, and my fellow concrete drillers and sawers in the UK, will still place huge emphasis on networking and sharing with the industry around the world. It is something that I, and my father, Peter, before me, believe in passionately. I know many of you know my father well and he really was a standard bearer for global co-operation and it is something that he has instilled into me as the managing director of D-Drill.

My first experience of the American Concrete Sawing and Drilling Association was tagging along with my parents when I was only 14 years old. Already in 2016, I have travelled the world from Las Vegas to Munich for events, such as World of Concrete and Bauma, where the industry gets together to celebrate its achievements and to share the latest knowledge, information and technology. Through networking I have, over the years, been able to tap into the knowledge of fellow concrete drillers and sawers, as well as suppliers, from around the world on everything from contractual problems, best practice and maintaining strong relationships with employees and customers. I have also made some amazing friends from all around the world and long may it continue. So why wouldn't you want to join in and network with your own country's association and with the rest of the world?

I will be attending the CSDA March 2017 Convention in Puerto Rico and I very much look forward to catching up with colleagues from around the world once again.



I will also be attending the Swedish Exhibition Demcon in September; it won't be as hot as Puerto Rico, but I am sure we can all have a couple of drinks with the Vikings to keep me nice and warm.

It is a very interesting exhibition and to see the collaboration between diamond drillers and sawers and demolition experts, which I feel the whole world could learn from, the Swedes have one association and a very close relationship between two very close working industries, which pulling together stronger can only be a benefit.

As I have outlined, I feel it brings benefits to us as a business and I believe it helps our industry to thrive in the face of some global uncertainty. It also makes you realise that, wherever you cut concrete in the world, we all have the same problems.

I know others around the world are unhappy about some of the regulations placed upon their business by their own domestic governments and while we all have different issues, I would urge you to utilise the IACDS and CSDA, and your home country's association in order to help. If you need us to add weight from the IACDS to your view in your own country to try to remove some of the red tape being placed upon you, then please get in touch and we will do all we can.

I am a regular on TV in the UK because I am of the opinion that if I do not speak up for construction and all of its many specialisms then who will? Whether it is getting more people into the industry or, indeed, questioning the levels of red tape that business is burdened with, I have made it my duty to speak out. So, you may ask, why am I so optimistic as we head into the final quarter of 2016 and start to look ahead to 2017?

I can just see so much potential for the industry and it really is down to all of us to go out there and make it happen, to look at every way possible we can to grow and to continue to talk up our industry. In the UK, I can certainly see great opportunities, providing we make the necessary investments that are required in infrastructure and housing. Others I have spoken to around the world share the same optimism for prosperity.

I look forward to seeing you all at Demcon and the CSDA meeting in Puerto Rico and, as ever, I am always available for you to contact me at juliewhite@d-drill.co.uk and I will always respond.

Thank you for reading.

Julie White, President of IACDS

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World's largest hydraulic breaker debuts in the Middle East

The Middle East's first Atlas Copco HB 10000 hydraulic breaker has recently been commissioned at the Eastern Province Cement Company in Dammam, Saudi Arabia.

The HB 10000, mounted on a 107t Komatsu PC 1250 excavator, weighs 10t and has a single impact blow energy of 16,000J up to 380blows/min punch. The HB 10000 breaker will be used in temperatures reaching up to

51°C for primary breaking limestone. EPCC is one of the leading cement companies in Saudi Arabia producing clinker and cement for local and global markets. "We are facing very hard rock, which lowers traditional dozer productivity, compared with a hydraulic breaker, in this type of deposit and achieves a lower cost/t," said EPCC mine superintendent Shafeek Ahmed.

"The HB 10000 provides an ideal solution for EPCC's primary quarrying application. The combination of extreme power and efficiency provided by the breaker gives real operational savings, making it an unrivalled cost-effective production machine for primary rock breaking," said Atlas Copco Construction Tools regional business line manager Fiaz Ghani.

Powered by a combination of oil and gas, the HB 10000 becomes less dependent from the carrier's hydraulic oil supply. This results in 70% of the impact energy being regenerated by the gas in the piston accumulator and only 30% by the carrier's hydraulic oil supply. The internal control valve converts the hydraulic input into a greater hydraulic output.



DELETE ACQUIRES DEMCOM

The Finnish Delete Group has acquired the Swedish demolition companies Demcom Demolition and Demcom Machine, with a combined turnover of €17M. With this acquisition, Delete is now one of the leading demolition and industrial cleaning companies in the Nordic region with over 800 employees and a turnover of €135M in 2015.

"This is a very important acquisition and makes us the leading company in demolition in Sweden, a position we already have in Finland. Now we have the resources to provide our demolition services in other European countries," said Delete Group chief executive Jussi Niemelä.

Delete's ambition is to be the natural choice as a provider for environmental services in the Nordics. "Combining the comprehensive expertise and good references from Demcom

with our existing demolition expertise, Delete will definitely take a big leap ahead in Sweden," said Niemelä.

"We are very pleased to welcome Demcom to be a part of Delete. They will provide us with good competence within difficult and technically demanding demolition projects. We work in challenging working environments and, therefore, put strong emphasis on quality issues. Work safety, quality and environmental work are always prioritized," said Delete managing director Sweden Mårten Fuchs.

"We see Delete as a perfect match and this transaction will open up new opportunities for us together. We will be even stronger and can develop the business in a more efficient way," said Demcom managing director Kim Dahl.

Case invests in European manufacturing

Case Construction Equipment is investing in its European plants in Italy as part of its manufacturing strategy for the region. This is



based on the creation of two production hubs, focusing manufacturing on specific product families in each facility. One will be for excavators in San Mauro and the other for wheeled equipment in Lecce. The aim of this strategy is to provide products with the manufacturing flexibility to respond swiftly to the demands of the market. These actions, aimed at optimising Case's European manufacturing footprint, fit within the overall strategy to establish the company as global full line manufacturer and strengthen its position in the region.

Dust Control Technology's new president

In the US Dust Control Technology has promoted general manager Laura Stiverson to the post of company president. Her primary responsibilities will continue to revolve around new product engineering, business development and customer service. "She is uniquely qualified in experience and temperament to lead the firm in exploring new markets, services and equipment designs," said DCT chief executive Edwin Peterson. "Laura has been taking us in new directions for some time and we felt it was appropriate that her energy and passion be formally recognized."



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Caterpillar to end alliance with Wacker Neuson

Caterpillar will shift design and production of its smallest hydraulic excavators to Caterpillar facilities beginning in 2018, as a six-year alliance with Wacker Neuson is phased out. Caterpillar will focus on growing its global mini excavator business to deliver new machines weighing less than 3t.

Caterpillar's Building Construction Products Division will design and manufacture the new machines. Five of the current models 301.4C, 301.7D, 301.7D CR, 302.2D and 302.4D manufactured by Wacker Neuson will phase out in mid-2018, and the 302.7D CR will phase out at the end of 2019. The 300.9D will also phase out at the end of 2019 or later if mutually agreed by both parties.

"Wacker Neuson has been an excellent alliance partner, providing Caterpillar high quality mini excavators in this smaller size class for the past several years," said Caterpillar mini hydraulic excavator and small track-type tractor general manager Corey Coon. "The market for these products has grown, and we believe that internally designing, manufacturing and distributing these excavators will provide an even higher value to our customers, dealers and shareholders."

Spare parts availability, technical support and warranty for current models will continue as Caterpillar and Wacker Neuson work together going forward. Other products sold and serviced by Wacker Neuson at Cat dealers and rental stores will not be affected.



Chicago Pneumatic dealer's 25th anniversary

One of Chicago Pneumatics' South African construction equipment distributors, Grinding Power, based in Jet Park, Gautang, is celebrating its 25th anniversary as a CP dealer. The company is one of CP's longest standing distributors in South Africa and was established in 1991.

Grinding Power's countrywide footprint covers Gauteng, Mpumalanga, Kwa-Zulu Natal, the Free State and the Eastern and Western Cape. The company's Port Elizabeth branch supports and services the Eastern Cape region with mainly breakers, compressors and parts. Grinding Power's customer base also extends to countries outside South Africa's borders to Malawi, Mozambique, Tanzania, Zambia and Zimbabwe.



Blue Spares doubles sales team and reports spectacular growth

Blue Spares is the provider of genuine OEM spare parts for the main distributorships of parent company Blue Group, Powerscreen and Doppstadt. Since inception 13 years ago, Blue Spares has consistently made large investments in storage premises, ever-increasing parts stockholding, fully automated and computer controlled stock picking systems and despatch processes and qualified personnel, to provide the best customer support.

The Company reports outstanding growth in 2015 and a significant recent investment in more sales personnel, effectively doubling the sales team and further enhancing the service available to Blue's customers. Full product training and continuous career development

programmes ensure Blue Spares' personnel can provide the technical product support expected by customers.

With a spares holding now exceeding £3M held at Blue Spares' Warrington headquarters and Blue Scotland's new premises in Stirling, plus over 13,000 items available off the shelf, Blue Spares is positioned to ensure product support is second-to-none. The company has developed a 24/7 network spares service for UK customers and provides a 24h parts turnaround.

Blue Group believes that the sale of a machine is just the beginning and with a portfolio of product distributorships, after sales product support has to reflect the engineering excellence of the original equipment.

RED DOT AWARDS FOR HILTI

Hilti received several awards for new product innovations at the Red Dot Award: Product Design 2016 ceremony, held in Essen, Germany.

The 41 international experts that make up the Red Dot jury handed out a design award to Hilti's BX 3-ME battery actuated fastening tool. The tool is the first in its category that generates enough power to set fasteners and nails into hard surfaces, such as concrete or steel. Users benefit from a high degree of comfort, low noise, a slight recoil and dust-free work.

A further award went to the PD-C laser range meter, which allows the results of measurements to be saved either as a digital photo or a report. Various calculations can also be carried out and, along with comprehensive project data, can be exported to a computer, tablet or smartphone. The jury gave the third award to the SF 8M-A22 and SF 10W-A22 cordless drill drivers, which are equipped with 4 speed full metal gearing, providing optimum torque for drilling and screw driving into metal and wood.

HITACHI'S NEW DEALER IN SERBIA

Hitachi Construction Machinery (Europe) has appointed West Balkans Machinery to distribute its construction machinery in Serbia and applies to the full range of mini, medium and large Zaxis excavators, rigid dump trucks, ZW wheel loaders and Hitachi Sumitomo crawler cranes.

West Balkans Machinery specialises in supplying equipment for mining, quarrying and construction projects. The company has seven sales departments, as well as teams dedicated to service, logistics, accounting,

marketing and quality. The Hitachi department consists of two sales representatives, two service technicians and a fully equipped Hitachi service vehicle.

"We appreciate the strong and proactive support that we have received from Hitachi," said West Balkans Machinery quality and marketing manager Sanja Vukovic. "We are united as one team, and able to offer a high level of support to the local market and make our customers feel valued."



Volvo Construction Equipment's new president of sales

Volvo Construction Equipment has appointed Carl Slotte to the position of president of sales for Europe, Middle East and Africa, effective from 1 October 2016. He succeeds Tomas Kuta, who was appointed Volvo CE Global Sales senior vice president in June 2016.

Slotte has over 20 years' experience in the construction industry, including senior positions within Volvo CE's global functions, the sales organization and the dealer network. In his new role, Slotte will be responsible for meeting the diverse needs of customers in the EMEA region and strengthening Volvo CE's market position.

Slotte has held a number of leadership positions at Volvo CE, including Global Key Accounts senior vice president, Hub North vice president within EMEA, Volvo CE Russia managing director and Volvo CE Finland dealer managing director.

Wacker Neuson appoints new chief financial officer

Wacker Neuson SE has appointed Wilfried Trepels as chief financial officer and member of the executive board, replacing Günther C. Binder, who has stepped down from the executive board.

Trepels will be responsible for finance, auditing and IT. Previously he spent over 11 years as chief financial officer at Saf-Holland in Luxembourg. He has also held the positions of managing director at Dürr Systems and Schenck Process and finance director at Dürkopp Adler.



BENEFITS OF THE SANDVIK QA335 DOUBLESREEN

German construction equipment rental company Karl-Werner Bierbrauer, which has been hiring Sandvik screeners for many years to its customers, was impressed to see how the QA335 Doublescreen is more productive and possesses more features than its QA331 mobile three way split screen. In comparative site trials the QA335 proved to be 40% more productive than the QA331. The company is now considering upgrading its screening fleet with the QA335 with the final decision being based on customer applications and demand.

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BESPOKE RECYCLING PLANT FOR LOWMAC

In Scotland Lowmac Waste and Recycling has invested in a custom built recycling plant from equipment supplier Blue Machinery Scotland to increase its waste processing capacity and enhance the cleanliness and quality of the end product. The plant, which is capable of treating a broad range of mixed waste, is processing a variety of incoming waste streams at around 1000t/week at a rate of between 25t/h and 30t/h.

Depending on the material being processed, Lowmac's new plant starts with a Powerscreen Warrior 1400 screener, which ensures the incoming feed material stream is <75mm, the size the system has been designed for. An elevated conveyor array with an overband magnet feeds into the covered plant where a Spalec double deck separator combines a 3D twin top deck with a flip-flow bottom screen to further separate the material through the two processes to 10-75mm, discharging the clean fines to a collection conveyor and onward to the stockpile. A further conveyor takes the residual oversize material to a BlueMAC Typhoon air density separator to remove the light material, with the heavier fractions being taken by transfer and feed conveyors to a single bay picking station and onto a BlueMAC all metal separator unit for further ferrous and non-ferrous metal separation and extraction. The remaining cleaned hardcore at the end of the process is destined to become crushed recycled aggregates for civil engineering and construction use.

Lowmac Recycling has been a Blue Machinery Scotland customer for over 18 years. "This plant is proving to be an excellent and versatile addition to our recycling and reclamation capabilities and is performing very well," said Lowmac managing director Kenny Smith. "As always, we have been extremely well served by Blue Machinery Scotland and have the greatest confidence in their excellent after sales product support. Also we are all very impressed with the build quality and productivity of the BlueMAC equipment and their very professional and efficient installation team. Another added benefit for us is the modular nature of the BlueMAC plant, which will allow us to expand and enlarge it should the need arise."

CONSTRUCTION EMPLOYMENT RISES IN THE US

In the US 39 states added construction jobs between July 2015 and July 2016 while construction employment only increased in 23 states and the District of Columbia between June and July, according to analysis of Labor Department data from the Associated General Contractors of America. Association officials said construction employment likely declined in many states as firms have difficulty locating qualified workers to hire.

"Depending on market segment and geography, many firms report they are having a hard time finding enough workers to keep pace with demand," said AGCA chief executive Stephen E. Sandherr. "While there is slack in key segments like infrastructure and parts of the country that are struggling economically, many of these declines likely have more to do

with firms not being able to find workers than not being able to find work."

California added the most construction jobs up 4% between July 2015 and July 2016. Other states adding a high number the past 12 months include Florida up 6.1%, Colorado up 10.9% and Iowa an increase of 16.5%. Iowa added the highest percentage of new construction jobs during the past year, followed by Hawaii, Idaho and Colorado.

Kansas lost the highest number of construction jobs, down 7.3% for the year. Other states that lost jobs for the year include North Dakota down 8.5%, Alabama -3%, Kentucky -3%, Wyoming -7.5% and Maine -5.7%. Construction employment was unchanged in the District of Columbia.

AGCA officials said construction firms

that work on infrastructure projects, or in parts of the country where the economy is not growing, are still struggling to find work to keep their teams busy. They added however that firms working in fields like private commercial development in states where the economy remains robust continue to worry about having finding qualified workers. They added that the association would release new workforce shortage data in the near future that provides more information about current labour market conditions.

"What is clear from the data is there is not one single labour market for the construction industry," said Sandherr. "Where demand is strong, labour is tight, and where demand is weak, labour conditions are better."

Wacker Neuson plans new factory in China

The Wacker Neuson Group is planning to open a new plant in Pinghu about 30km from Shanghai in China. Initially compact excavators will be produced for the local market with the first machine expected to roll off the production line at the beginning of 2018.

The decision arose from an extensive search for a location. "We have finally decided for the Pinghu location in Zhejiang Province, which best fulfills our requirements and the support of the local authorities is outstanding," said Wacker Neuson chief executive Cem Peksaglam. Manufacturing facilities, research and development, quality management, logistics, service and training will be located on approximately 135,000m² of ground with around 30,000m² of building space. Construction is planned to start later in the autumn, with completion by the end of 2017. Initially the Chinese and later the Asian markets will be served with products tailored to the local requirements.

The Wacker Neuson Group has sold construction equipment in China for over 20 years. The product portfolio for the Chinese

market was extended in 2015 to include compact equipment. An increasing need for improved infrastructure, the extension and modernization of the road and rail network while trending towards more efficient and environmentally friendly compact construction equipment offers attractive growth opportunities for the Wacker Neuson Group. A stronger presence in the country, including research and development and production will lay the groundwork to be part of the future growth and improvements in the Asia-Pacific region.



Busy show programme for MB Crusher

MB Crusher has been very busy exhibiting at trade shows this year with its new products. The MB-LS220 screening bucket for loaders and backhoe loaders from 12t, a line of hydraulic drum cutters MB-R, the third generation of bucket crusher BF90.3 and screening bucket MB-S18 are the main products on show.

In addition to Bauma earlier in the year, MB Crusher is also exhibiting at the Nordbau and Galabau fairs in Germany, Minexpo in Las Vegas and Marmomacc in Verona in September. These will be followed by the mining industry conference SIM in France and Saudi Build in Riyadh in October. November will include Ecomondo in Italy, Bauma China and Bc India, culminating in December at a fair in New Delhi, India.

Liebherr Group boosts turnover

The Liebherr Group posted turnover of €9,277M for 2015, an increase of 4.7% or €414M compared with the previous year. In the current year Liebherr expects turnover to be at the previous year's level. The Group will continue to invest considerably in its international production sites and its sales and service network. There will again be a slight increase in the numbers of employees at the Group's companies. Liebherr predicts global economic development in the current year will probably be similar to 2015 with approximately the same rate of growth as in the previous year in both industrial countries and emerging markets.



Hilti acquires PEC Group

The Hilti Group will further strengthen its market position in the fastening solution segment with the acquisition of the PEC Group, based in Duisburg, Germany. Hilti expects to complete the takeover by the end of 2016.

The PEC Group, founded in 2008, has about 100 employees at its headquarters, the manufacturing site in Suzhou, China and its sales locations in Pune, India and Dubai in the United Arab Emirates. The company produces anchor and installation channels, as well as accessories for fastening solutions for elevators and facade and tunnel and bridge construction applications. "Due to our strong international growth we were looking for a partner to make better use of our market potential. Hilti is extremely well-positioned

to achieve this," said PEC founder and chief executive Bernd Hebborn, who together with all the other PEC team members will continue to be employed in their present functions.

By combining the product lines of the two companies, Hilti will become a one-stop provider offering a broader scope of fastening solutions with anchor and installation channels. In addition the manufacturing site in China will provide the company with additional capacities and optimize its access to Asian markets. "We are convinced that the PEC Group acquisition will not only strengthen our business with anchor channels, but also help us to further improve our leading position in the fastening technology sector," said Hilti executive board member Stefan Nöken.



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WELL WHEELED MOVERS

Wheeled loaders are part and parcel of many industries: construction, demolition, mining, material handling. A modern wheeled loader is a versatile machine built to work in the harshest environments while offering a high level of operator comfort. With Bauma as the pivotal event of the year, no manufacturer could miss out on such an opportunity to parade their latest models. Andrei Bushmarin reports.

Hidromek diversifies into loader business

The Turkish manufacturer Hidromek has added wheel loaders to its backhoe loader, hydraulic excavator and motor grader portfolio. Production of HMK 640 WL, debuted at the last Intermat, will start in the last quarter of 2016. Weighing 25.6t with a 4m³ bucket as standard, the HMK

640 WL is powered by a jointly produced Mercedes/Rolls-Royce six-cylinder 10.7l MTU engine, delivering 241kW and 1,600Nm torque. The engine meets the latest Tier 4 Final and Stage IV exhaust emission regulations.

It has four-wheel drive and five forward and three reverse speed automatic transmission and planetary

heavy-duty external reduction ZF axles. A safety system prevents the engine starting while a gear is engaged. The rear axle is tiltable to 26° and the front axle has a differential lock to provide greater traction.

The ROPS and FOPS cab comes with a rear view camera and 10 LED work lamps as standard.

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The interior features the Opera control system, 125mm LCD screen and 200mm LCD multimedia touch screen, an air conditioner, electro-hydraulic fingertip controlled levers, temperature controlled air suspension seat, a Smart-Link information system and side mirrors. Daily inspection and maintenance is through a tiltable cab and power operated engine inspection canopy.

www.hidromek.com.tr

Hyundai extends HL series with the biggest model so far

Hyundai has added the HL980 model, the biggest machine in its new HL series of wheeled loaders. Weighing 31t, the HL980 is powered by a Stage IV-compliant SCANIA DC13 engine without a diesel particulate filter, which makes it up to 10% more fuel-efficient in truck loading operation and up to 8% more productive in comparison to its 9A series predecessor. A 10% larger ROPS/FOG/FOPS cab with an adjustable seat is soundproofed to the level of 68dB(A). The driver operates the boom, bucket and the third hydraulic line using an integrated electro-hydraulic fingertip control lever. There is a 180mm touch screen monitor similar to a smart phone display. The infotainment system allows web surfing and video streaming using the wifi signal from the operator's smart phone.

A new feature is soft end stop, which is also controlled from the touch screen monitor. When the attachment reaches the end of a stroke, the soft end stop reduces its speed, ensuring a shock-free operation.

The new automatic/manual cumulative weighing function is added to improve operating efficiency. Icons displaying weighing errors and the two-colour weight value indicator on the monitor enable accurate weighing. Another new feature is an electrically retractable engine canopy. With a flick of a switch full access is gained to the engine compartment.

www.hyundai.eu

John Deere beefs up compact range

John Deere has introduced the heavy lifting, tight turning 244K and 324K compact wheel loaders. The 244K at 48kW and 324K at 52kW are equipped with transversely mounted Final Tier 4 diesel engines with a

two-speed transmission and top speeds of 30km/h and 2730km/h respectively.

The oscillating stereo steering is the foundation of the compact K-Series models, delivering a smooth turning radius. This feature ensures faster cycle times and better material retention over a rough terrain. The 244K and 324K offer higher tipping load capacities than their J-Series predecessors and the hydrostatic drive train's infinitely variable range allows the operator to precisely match travel speed.



The wheel loaders' 100% front differential lock is easily activated through a pushbutton on the joystick. In addition, manual low-speed differential lock delivers the traction needed to go deeper into a pile for bigger bucket loads.

The K-Series cabs are comfortably equipped and offer unobstructed views of attachments and the surrounding work area. The boom, bucket, and forward, neutral and reverse switch are on the same lever for convenient one-hand control. Other features include tilt steering, adjustable suspension seat, electronic monitor, and convex mirrors.

www.JohnDeere.com

JCB wheels out four new models

JCB's new 411 and 417 wheeled loaders are powered by the

company's own EcoMax Tier 4 Final/Stage IV compliant diesel engines, delivering 81kW in the 411 and 108kW in the 417. The larger 427 and 437 loaders operate with a Tier 4 Final/Stage IV Cummins diesel engine, offering 133kW and 136kW respectively. Both engines meet the emissions standards without the use of a diesel particulate filter. All Tier 4 Final loaders now feature a single-piece engine canopy that can be electrically or manually raised. The machines drive through automatic powershift transmissions for maximum productivity and efficiency.

All come with the JCB CommandPlus cab, first seen last year on the larger 457. The redesigned ROPS cab provides a larger interior with a panoramic front windscreen. The machines feature JCB's command driving position, with revised pedals, an adjustable steering column and seat mounted hydraulic controls. JCB's CommandPlus control system allows the operator to adjust auxiliary flow rates on the main screen. It is also possible to use the monitor to adjust boom suspension engagement speeds where fitted, and the timing of cooling fan reversal to clean out the cooling pack cores. The cab offers increased internal space, as the heating, ventilation and air conditioning system has been repositioned outside the main cab structure. Operators benefit from a range of seat and control options, with electro-hydraulic proportional auxiliary controls now fitted as standard.

www.jcb.com

Volvo CE adds two new models to H-series

Volvo Construction Equipment used Bauma to present two additions to its H-series of wheeled loaders. Weighing in at 8.67t and 9.5t, the new L45H and L50H loaders have a breakout force of 62kN and 69kN respectively. Both models feature Volvo's intelligent load-sensing hydraulic system that drives power to the hydraulic functions according to demand for a fast response, shorter cycle times and reduced fuel consumption. An optional boom suspension system boosts productivity up to 20% by absorbing shock and reducing bouncing and bucket spillage.

Equipped with Tier 4 Final Volvo engines, the loaders deliver high torque at low engine speed. The engine has exhaust gas recirculation in combination with an





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integrated diesel particulate filter and selective catalytic reduction system. The ROPS/FOPS cab features ergonomically placed controls, a superior climate control system, all-around visibility and low internal noise levels. The cab roof and walls keep noise and vibration to a minimum. The comfort drive control function gives the operator the choice to control the machine by lever control. A climate control system ensures comfortable operation, providing optional automatic heat control or air conditioning.

www.volvoce.com

Case unveils two new waste handlers

Case used Bauma to show the new 721F and 621F WH loaders for waste handling applications. They feature Case's HI-eSCR technology which has the advantage of safety near flammable materials as the exhaust's temperature is 200°C lower than it would have been with a diesel particulate. Another feature is the Case heavy-duty cooling option, which prevents clogging of the radiator. An extra thin inlet grille catches larger particles while sealed radiator covers ensure that the cooling air is 100% filtered.

www.casece.com



Cat upgrades mid-range models

Caterpillar has updated the Cat M series medium sized wheel loaders 950M, 962M, 966M, 972M, 966M XE, 972M XE, 980M and 982M. The upgrade includes the new Cat connect technologies, additional safety features and reduced operating costs. The new product link elite system is now offered as standard, providing faster cellular and satellite connection capabilities. Version 1.2 of the system now indicates when the linkage is in the weighing range, allowing operators to confirm that an accurately scaled weight is being determined. The system also allows operators to manually activate the tip-off feature for those applications in which auto tip-off detection is not ideal.

The updated Cat production measurement system allows the use of multiple buckets and helps operators navigate truck and material identification lists via the monitor. In addition the standard payload interface enables third-party scale systems to be shown on the cab touch screen.

The 966M XE and 972M XE feature an economy mode that provides up to 4% improved fuel consumption during regular operation and up to 8% in truck-loading applications. The economy mode, enabled and disabled via the LCD touch display, automatically lowers engine speed when full power is not required. The variable ground speed limiter is also now available for all conventional M Series medium wheel loaders. This feature allows site managers to set machine speed limits from 15km/h to 40km/h with independent adjustments for forward and reverse.

www.cat.com



Hitachi introduces the sixth generation

Hitachi Construction Machinery used Bauma to present the sixth generation of its ZW series wheel loaders. The new ZW370-6, ZW310-6 and ZW220-6 machines feature a EU Stage IV compliant engine that does not require a diesel particulate filter. The selective catalytic reduction system contributes to softening the machine's environmental impact. Operational safety has been enhanced thanks to a 360° panoramic view from the cab and a rear-view camera. A quick-power switch increases engine output when more power is instantly required or when driving uphill. The simultaneous movement of the bucket and lift arm ensures efficient digging operations. Loading is ensured by a 25% improvement in traction force compared to the previous models. Durability has been improved by using new materials and reinforced components, such as corrosion resistant aluminium radiators.

www.hcme.com





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Mammoet's new crane Kobelco CKE2500G.

Cranes for **DEMOLITION**

Cranes can also be used for demolition applications as well as normal lifting duties. In Europe and the US, cranes with wrecking balls are sometimes used to demolish tall buildings, chimneys and silos. Mikael Karlsson looks at some of the recent highlights in cranes that can also be used for demolition.

Japanese manufacturer Kobelco recently introduced six new models of the new Mark 2 Kobelco CKE-G and BME-G Series that have improved to be more environmentally friendly and easy to operate.

All are equipped with the new clean diesel system engine with exhaust gas emissions in compliance with NRMM Europe Stage IV and US EPA Tier 4 Final regulations. The diesel system has a diesel particulate filter and selective catalytic reduction exhaust gas after-treatment system that converts nitrogen oxide emissions

into harmless diatomic nitrogen and water with the aid of the catalyst AdBlue.

All G-Series models have G-mode, three energy saving systems to help conserve energy by reducing fuel consumption. Kobelco has improved the usability of the G-mode, which has been adopted on the Mark 2 G series. As an example, for the idling stop function, under certain conditions, the AIS can be activated by the operator. With the increase in the opportunities to use the idling stop function, further energy savings can be expected.

17 cranes to Mammoet Crane Europe

Kobelco has recently started delivering an order of 17 cranes to the Dutch company, Mammoet Crane Europe. The company will be using the cranes on a wide variety of high-profile industrial, petrochemical and maritime projects around the world. Mammoet provides clients with tailor made methods for relocation and decommissioning of old installations.

"For 30 years Mammoet has worked with Kobelco cranes in the most challenging conditions around the



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world; from extreme dusty conditions with high temperatures and high humidity in the Middle East, Latin America and Australia to extremely low temperatures in Canada and Russia," said, Kobelco Cranes Europe sales and marketing manager Jos Verhulst.

Terex

CTT162-8 tower crane

In Germany, a new Terex CTT162-8 tower crane is making a compelling case as an allrounder for the Matthias-Claudius-Haus nursing home in Waldshut. The Terex CTT 161 tower crane had proven its worth during the first stage of the nursing home, so Waldshut-Tiengen-based construction company Schleith insisted on the use of a Terex crane for the second stage of construction. The project subcontractor, Lörrach-based Meier-Krantechnik, complied with the request and ordered a Terex CTT 162-8 tower crane, the successor to the CTT 161.

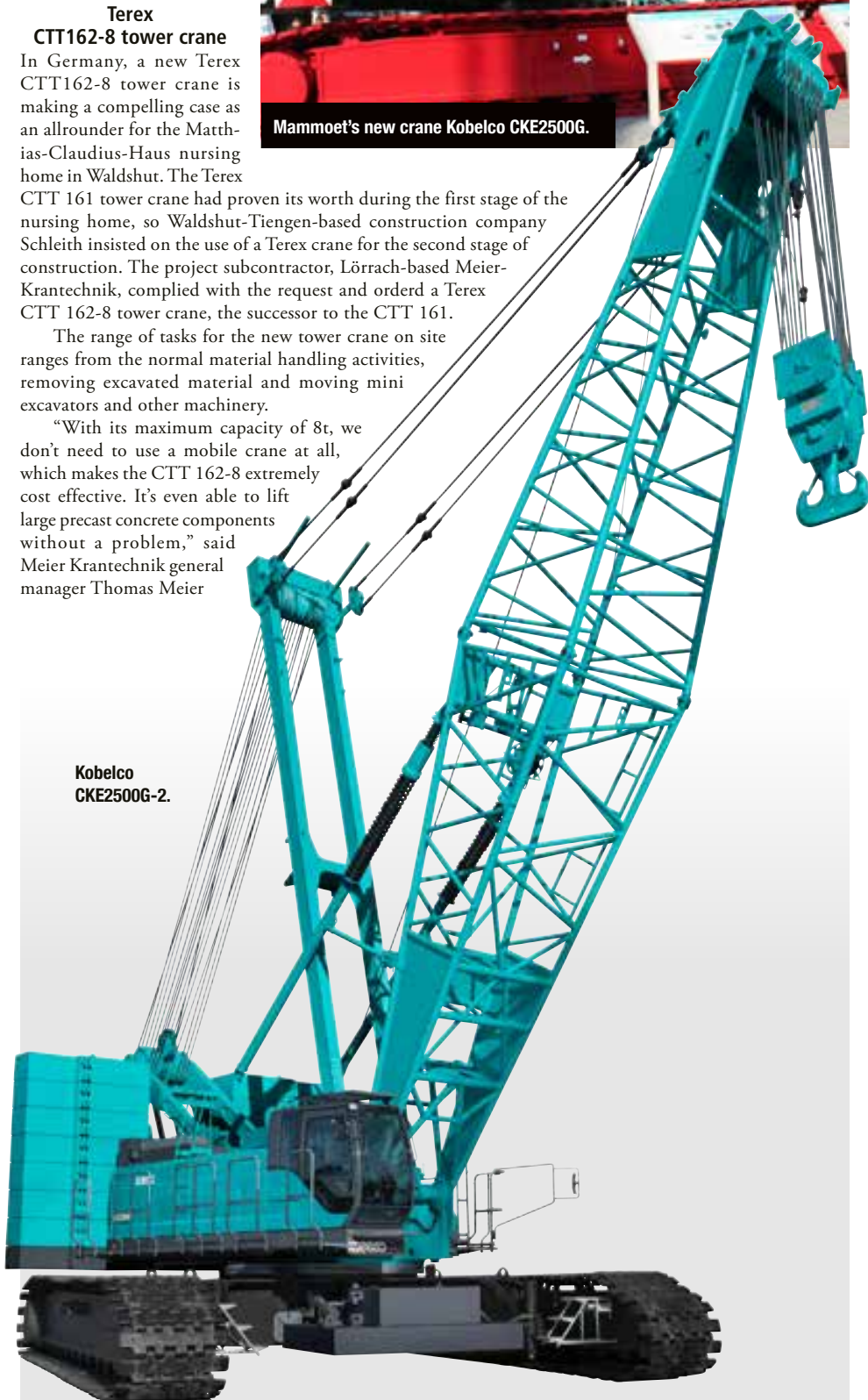
The range of tasks for the new tower crane on site ranges from the normal material handling activities, removing excavated material and moving mini excavators and other machinery.

"With its maximum capacity of 8t, we don't need to use a mobile crane at all, which makes the CTT 162-8 extremely cost effective. It's even able to lift large precast concrete components without a problem," said Meier Krantechnik general manager Thomas Meier



Mammoet's new crane Kobelco CKE2500G.

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Ground penetrating radar is the key

Many construction outfits are coming round to the notion that concrete scanning services are vital for job safety. Whether it is retrofitting buildings to make them earthquake proof or ADA compliant, or remodelling existing structures to add capacity, it is essential to know exactly how to avoid hazards that may be in concrete. More and more they are turning to ground penetrating radar scanning to know exactly where to cut and drill to reach vital building components and avoid structural supports and conduit lines.

Move to improve safety

Penhall Technologies specializes in GPR scanning for concrete hazards in the US since 2001 and in Canada before that. Penhall considers GPR the most reliable, non-destructive way to locate targets and hazards within concrete structures prior to cutting or coring.

The company has 38 locations in 18 states and Canada, and operates across North America. They see a variety of regional building trends that affect the need for concrete scanning. "We've seen an increase in column reinforcement projects, where people want to add extra levels to a stadium, parking structure, or airport," said Penhall Technologies president Simon James. "In the past they may have had to demolish the entire structure and start over, but now because the engineer can avoid hazards within the concrete, they are able to calculate how much weight that column can bear with extra reinforcement."

James explains that until about 15 years ago, workers going in blind while cutting into existing structures often risked hitting live conduit. "Now many industry experts recognize that cutting into these hazards can be devastating if people do not scan first. GPR technology makes the project far safer and I consider its use to be a real game-changer," said James, who believes structural radar imaging is a service that quickly pays for itself many times over.

Penhall has a zero accident safety culture. The company has established a set of safety rules, practices, and behaviours. The process begins with an initial site survey by a GPR technician with the client's representative to identify any potential hazard.

James likens the process to the one used by detectives. "We ask them to talk to the customer and be aware of the environment, the floor, and other utility lines. They look in advance to see if there is post tension cabling, and note the gauge of the rebar, before they even get their GPR equipment out. They can avoid a major disaster by taking 10min to 15min to survey the job."

Getting beneath the surface with GPR

Penhall uses a variety of equipment for scanning. A large percentage of their projects are conducted using a handheld device that combines a screen and antenna in one unit. The equipment is small and lightweight, which makes it easily

manoeuvrable. This is extremely important for ergonomics, since scanners can be on the job for up to 10h/day.

Data analysis is key

In addition to the GPR concrete scanning, data analysis is crucial in the quality of the work and the ability to safely and accurately pinpoint hazards. "It is as important to investigate the environment we are scanning and not only understand and assess a hazard, but also to be able to evaluate anomalies in the data for potential issues," said, Penhall director of field operations Elizabeth Wilson. "It takes knowledge, training, and experience to correctly interpret GPR data."

This knowledge base is enhanced by Penhall's training and mentoring philosophy. Two-person teams include a newer employee paired with a more experienced scanner. The company believes it takes a special aptitude to understand the science behind GPR. To get employees with the right skills, they have begun to hire from outside the construction industry with either a geology or geophysics background. They also have an active focus on hiring veterans, including those with either non-destructive testing or bomb disposal training.

GPR allows safe remodelling

One example of how GPR can be used to ensure job site safety was at a major hotel, where the owners wanted to build a shopping mall on top of a multi-story compound. One option was to demolish the compound. Instead, the owners decided to build on top of the building by reinforcing the entire structure. For this they needed to drill into the basement and install reinforcing rebar and concrete columns. "We were able to core and scan the area. An accurate understanding of where all the existing structural elements were in the basement enabled the contractor to avoid damaging the existing structure," said James.

Another example is a case of a mini skyscraper in Canada where a contractor was renovating two floors of a building and installing disabled bathrooms. Installing the plumbing was a challenge because the floors contained a variety of structural elements, including post tension cable. With the help of GPR, Penhall's team located the cables, enabling the crew to cut safely without causing any damage.

At a major university stadium project in Arizona, contractors needed to reinforce columns and required an accurate scan of the rebar location. Penhall analysts were able to sample scan columns with precision and allow engineers and the scanning team to create a plan that would keep the project safe and moving forward. Much like insurance, scanning brings peace of mind for safety and cost savings that adds the real value. Cutting without scanning is a gamble. In addition, doing a small sample core or cut can help solidify data found in the scan. Taking a few minutes to test an area can prevent many potentially costly losses.



Garvey Demolition change to Lehnhoff

In the UK Garvey Demolition has made the switch to Lehnhoff fully automatic Variolock Quickcouplers, benefiting from just a 15s changeover between their hydraulic attachments.

Garvey has bought four Lehnhoff fully automatic Variolock Quickcouplers for their 22t machines, and adapted 18 attachments, a mix of pulverisers, munchers, buckets and grabs. They have also added a Rotar rotating grab and an RDP32 Pulveriser for their 50t machine.

Garvey decided to make the change to fully automatic Variolock Quickcouplers as they could see the huge benefits. They wanted to keep up with the evolution in the demolition industry and stay ahead of the game.

Garvey contracts and safety director Oliver Barby researched the market. He contacted materials processing equipment supplier Worsley Plant, and also compared Lehnhoff with other Quickcouplers. His key considerations were safety, 15s changeover, and no more broken pipes.

He made the decision to go with Lehnhoff based on the high quality of the product. The design and engineering stood out over the competition. He saw it as a better, stronger, more innovative product. He was also impressed with the Worsley Plant proposition and their customer service levels.

"Our 22t machines make up about 40% of our fleet. Eventually we plan to add Lehnhoff to our 14t and 50t machines," said Barby. "Adapting to Lehnhoff is a big investment for us, but based on the quality of the product and the back up from Worsley Plant, we are looking forward to reaping the future benefits."

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Demolition can be fun, especially with the right tools. Excavator attachments that break, crush, cut and pulverize structures are the spearhead of any demolition system. Andrei Bushmarin reviews some of the demolition tools marketed over the past year.

Rammer's new products at Hillhead

Rammer, a Sandvik-owned brand, used the UK exhibition Hillhead to showcase a slew of new attachments, including cutter crushers, scrap shears and pulverisers, all

made from wear resistant HB400 steel. Suitable for 3t to 130t carriers, the crushers have a chamfered jaw design for greater penetration, a speed valve and desynchronized jaws for precise placement and faster cycle times. They

come with a fully hydraulic rotation system with valve protection for longer motor life. The larger models feature forged and fully protected cylinder rods, heat-treated pins and long life bushes for reduced maintenance.

Also new from Rammer is a nine-model range of scrap shears suitable for 2t to 60t carriers. All have a speed valve and jaw, designed to ensure the material falls away from the cutting area. A double guide and a central pin adjustment system help ensure precise cutting jaw alignment. Each unit features cutting blades with four reversible sides.

The RPV series of pulverisers has been extended to include four rotating models and six static versions. The



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RPV series has been designed for simplified maintenance and easy access to all key components. Cutting blades and wear parts can be changed on site without any auxiliary tools.

www.rammer.com



Okada extends pulveriser range

The Japanese company Okada Aiyon Corporation has expanded its pulveriser line with two new models. The ORC280AV/HR, which is equipped with a 360° hydraulic rotator, fits 22t to 38t carriers, while the static OSC280AV pulveriser is suitable for 18t to 30t machines.

Both models feature a replaceable tooth plate in field system, enabling operators to replace a worn tooth plate on site. The teeth crush the concrete with less stress on the tool, which helps extend its service life. Various tooth patterns are available for a wide range of crushing and pulverizing tasks.

Okada has been manufacturing pulverisers since 1986, and some 9,000 units have been sold worldwide.

www.okada-aiyon.com

Rotar's new static pulverisers

The Netherlands-based attachment specialist Rotar introduced its new RSP series of static pulverisers. Prior to launch, RSP pulverisers were tested for about a year by several demolition contractors from different European countries. One of the first was German contractor Rino

Abbruch. After the trials the contractor said that the power and speed of the pulveriser were perfect to work with and that the design and placement of the rows of teeth were ideal, especially the large centre tooth, which created an outstanding first crush.

The Rotar RSP series are fitted with the same replaceable teeth as Rotar's RDP series and have the same jaw design. The design of the jaws ensures easy penetration of concrete and high productivity. After separating the concrete from the rebar, the steel cutting blades can cut long strings of rebar into manageable lengths. The in-house developed hydraulic cylinder and speed valve help increase the jaw's closing speed and boost productivity. The large diameter of hoses, bores and pipes helps reduce heat transfer and backpressure in the hydraulic system, decreasing fuel consumption of the carrier machine.

www.rotar.com

Demarec aims to set a new standard in demolition attachments

Demarec, also based in the Netherlands, is working on a new line of twin cylinder crushers. The first model will be the DCC-70, weighing in at 6t and designed for up to 80t machines. With this new range Demarec aims to achieve what it calls a new state of art in the industry: the crushers with the biggest opening, the highest closing force and an optimal jaw setting. The prototype is on test and the results are very promising. Once the tests are complete, Demarec will build a full line of crushers, ranging in weight from 1.8t to 9t.

The company has also updated a few existing ranges with new features. Its multi-quick processor MQP-30 is now available with a jaw for cutting trees and timber. With an opening of 1m it can cut trees of up to 750mm diameter.

Demarec has also launched an export version of the demolition and sorting grabs DRG-25-DN and DRG-27-DN, for 18t to 30t carriers. The new grabs have a flat rotator head with a special pattern, which makes them suitable for OilQuick top plates. Before the grabs were only available with an integrated CW-coupler common in the domestic Benelux market.

The DSP range of pulverisers, which come either with DemaPower or a standard cylinder, has been



upgraded with the rotation feature. Now Demarec's DSP-30, 45 and 60 models come with the rotation function, shock valves and filters. All Demarec demolition and recycling tools, except for grabs, are complete with the patented safety valve system to prevent over-pressurisation of the hydraulic cylinder. It prevents the explosion of the cylinder in case of blockage of the return oil line due to a damaged quick coupler or valve. With a growing number of machines having a higher working pressure, the manufacturer has upgraded its DemaPower cylinders to 380bar.

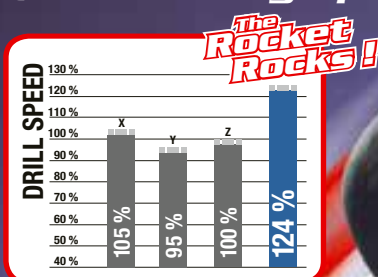
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Cat unveils new series of mobile shears for large excavators

Caterpillar Work Tools has launched the new S2000/S3000 series of mobile shears that fit 30t to 85t carriers. Designed for demolition and scrap processing applications, the new models can be boom or stick mounted and are available in straight and 360° rotating configurations.

Thanks to the duel offset apex jaw design, the shears have higher cutting performance compared to their predecessors. The patent-pending Cat bolt on piercing tip on the upper jaw further enhances productivity, while protecting the moving jaw and shielding parent metal from wear as the moving jaw travels through the lower jaw. Structural reinforcements more effectively distribute the shear's cutting forces, and the apex jaw design, coupled with a larger jaw opening, results in greater cutting strength, especially when cutting profiles. The reverse cylinder is fully protected and allows a low profile that improves visibility and manoeuvrability in tight spaces.

The knives and guide blades have four cutting surfaces that can be rotated before replacement is necessary. A heavy duty pivot group can be tightened with standard tooling to keep the jaws aligned as wear occurs. Knife maintenance, wear-plate replacement and tip build-up can be addressed quickly and easily.

www.cat.com



A new range of rotating pulverisers from Mantovanibenne

The latest series of rotating pulverisers from Italian manufacturer Mantovanibenne have jaws designed to enhance wear resistance. A speed valve increases the

number of opening and closing cycles of the jaw, ensuring high performance of the attachment. All models come complete with blades inside the jaw for rebar cutting. Mobile jaw plates are now available in two different versions. The CRP is the first choice for primary demolition tasks, whereas the PP version, with two front teeth, is recommended for recycling applications. The fixed jaw allows crushed material to fall through, improving performances and productivity.

www.mantovanibenne.com



MB Crusher grapples with demolition

The Italian crusher and screening bucket manufacturer MB Crusher, has diversified into demolition by introducing a four-model series of grapples. Weighing in at 780kg and designed for 12 to 18t excavators, the MB-G900 is the range's flagship model. It has a capacity of 0.43m³ and a closing pressure of 200 to 400bar depending on the application.

The MB-G900 has several performance enhancing features, such as the inclined plate connection increasing the grapple's range of action and the 360° rotation function.

www.mbcruiser.com



Busy year for Daemo

During the year the Korean attachment specialist Daemo has extended five product lines with new tools. It added the DMC220RB rotating crusher, which has its clamping jaws made of exchangeable wear parts for easy maintenance and maximum productivity. The movable jaw has an exchangeable tooth plate, which in turn is fitted with two replaceable teeth. The fixed jaw is equipped with exchangeable scraping teeth.

Another addition is the DMP200Q multiprocessor made of Hardox Hituf steel for up to 20t excavators. Thanks to the redesigned interchangeable jaws, the mul-

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<p>T4000</p>  <p>380-400V 3-phase 208-240V 3-phase</p>	<p>T6000</p>  <p>380-400V 3-phase</p>	<p>T7500</p>  <p>380-400V 3-phase 208-240V 3-phase</p>	<p>T8600</p>  <p>380-400V 3-phase 208-240V 3-phase</p>	<p>T8600F Auto</p>  <p>380-400V 3-phase 208-240V 3-phase</p>
<p>T8600 Propane</p>  <p>17 HP</p>	<p>T10000</p>  <p>380-400V 3-phase 480V 3-phase</p>	<p>T11000</p>  <p>380-400V 3-phase</p>	<p>T15000</p>  <p>208-240V 3-phase</p>	<p>T18000</p>  <p>480V 3-phase</p>
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pullman-ermator.se



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tiprocessor's performance has been considerably boosted compared to its predecessors. The DMP200Q comes with four types of jaws, crusher, demolition, pulveriser and shear, which can be replaced on site in 5min. An optional speed valve allowing the user to double the crushing speed is available.

Daemo's new shears MS400, 500X, 700, made of Hardox 400D, are designed for cutting large H and I beams. To meet the growing demand for mini-excavator attachments, Daemo has developed a super light Alicon breaker B06 which the company aims to secure a leading position in the under 1t mini-breaker market.

Daemo has also launched the DMQ-TS, a quick coupler with a triple safety locking system. The system features two compressed springs and a safety bar to prevent the possibility of detachment of a work tool during operation.

www.daemo.co.kr

Arden splashes on integrated spraying system

The French company Arden Equipment used Bauma to launch its Arden Jet system, a water-spraying device integrated into a demolition shear. The system features four spraying nozzles fitted on the shear's body to follow movements of the tool. The nozzles can be fixed at different angles or changed by the user to allow for various spraying patterns, matching a job's specific requirements for the water mist to capture airborne dust.



A rotating joint ensures supply of hydraulic oil and water while enabling uninhibited rotation of the shear. The hoses are integrated into the shear's body to protect them from a possible damage.

The cylinders are inverted in the jaws thus protecting the cylinder rods against damage and ingress of external material.

The Arden Jet is available on Arden multiprocessors CU022 and CU031 designed for 17t to 27t excavators, as well as the shears CD22 and CD31 intended for 26t to 37t carriers. In the coming months the Arden Jet system will be installed on the entire range of shears and multiprocessors.

www.arden-equipment.com

Atlas Copco tools make light of heavy-duty demolition

Atlas Copco Construction Tools has added new products this year. A new BC crusher buckets, BC 2500 and BC 3700, offer up to 30% higher output compared to previous models. Designed for 22t to 38t carriers, they have a crushing capacity of up to 110t/h.

Atlas Coco's new combicutter CC 5000 includes redesigned suspension for the one piece body, fewer parts, and improved jaw support. Plates are welded in the support area and broader bushes increase the surface area.

The new concrete buster CB 2500 is a match for high reach or long front carriers. With a jaw opening of 1.1m and the weight of 2.58t, the CB 2500 makes

light work of cracking girders and heavy concrete. The CB 2500 has a cracking force of 100t and can crack walls up to 900mm thick. Being a low-noise tool, the buster can be used in residential areas where hydraulic breakers are banned.

The SC Steel Cutter is a tool for demolition sites and scrap yards. The jaw on the SC Steel Cutter is equipped with an auto-guiding system, which directs the material deep into the jaw, ensuring maximum cutting performance. Featuring replaceable blades, the SC steel cutters are suitable for 16t to 110t carriers.

www.atlascopco.com



Viper slithers into battle

The Finnish company Ajutech, which makes crushing and screening buckets under the Viper brand, has launched two rotary drum crusher buckets. The single drum VPH 21 model is for 20t to 30t excavators, while the twin drum VPV 22 bucket is for excavators upwards of 30t.

Capable of crushing different materials, such as reinforced concrete, asphalt and wood, the Viper buckets are an alternative to conventional jaw crushers. The Viper screening buckets fit 3t to 50t excavators and 2t to 35t loaders. The buckets have 3D screening efficiency, thanks to the centre twin spiral and U-shaped assembly of the rotors. Other features include anti-clogging rotor blades with cleaning scrapers and counter blade assembly to allow screening of moist and sticky materials. A large selection of blades is available to match specific tasks.

www.vipermetal.fi



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The EDA 2016 Annual Convention **IN GLASGOW**

The European Demolition Association assembled contractors, manufacturers and European demolition industry associations at its Annual Convention on 9th to 11th June in Glasgow, Scotland. PDi reports.

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The EDA 2016 Annual Convention, attended by 150 delegates, included conferences, new product presentations, case stories and round table discussions all with the aim of protecting the EDA's interests in Europe.

The conference was opened by EDA president Pilar de la Cruz who welcomed the delegates and the support of the sponsors: Liebherr, Arden Equipment, Mantovanibenne, Rotar, Ritchie Bros, SMH, NPK, Lehnhoff, Demarec, Caterpillar, Hydraram, Stanley Labounty, Komatsu, Kocurek and JCB.

Workshops

The convention started with a workshop 'Assessment of Construction and Demolition Waste Streams prior to Demolition or Renovation of Buildings and Infrastructures', presented and moderated by TECNALIA (Coordinators of HISER H2020 project and the EU Specific Contract on Pre-demolition Audit). The current situation was explained about the pre-demolition audit in Europe, draft guidelines and ways to use them correctly in the future, under the EU's leadership. The

EDA General Assembly followed with an overview of the demolition situation in each country.

The exhibition

The professional programme started on the second day of the convention moderated by National Federation of Demolition Contractors chief executive Howard Button. At the same time there was a leisure programme

for the delegates' companions that included a guided tour of Edinburgh.

The first presentation, "How demolition is changing Glasgow" was made by Kenny Crookston, responsible for the Wheatley Group's demolition programme. Crookston explained the ambitious demolition programme that has regenerated Glasgow over the last 13 years.

The second speaker was ACR+ project manager Angeliki Koulouri, who talked about the FISSAC European-funded project. This presentation was followed by Dave Rowe and Jim O'Sullivan, from Keltbray, who together explained the demolition of the Earls Court Exhibition Centres, in London.

After a coffee break Marianne Hedberg, in charge of environmental matters at the Swedish





Construction Federation, gave a presentation about the Swedish 'Guidelines for resource and waste handling during demolition and construction'. This has been developed over nearly 10 years through broad cooperation within and between the construction, demolition and recycling industries in the Scandinavia.

There followed a presentation by the president of the Institute of Demolition Engineers, Duncan Rudall, who explained how this organization operated.

Afterwards managing director of the European Association for External Thermal Insulation Composite Systems, Ralf Pasker, spoke about the removal and recycling of these materials.

Jansen Recycling project and SHE-Q manager Carsten Tromp, from the Netherlands, then followed with his case story presentation titled 'Salvage Baltic Ace

project. It described the way Jansen Recycling Group prepared and executed the project.

The next session was opened by SMH Products chief executive Oliver Smith, who examined the need for monitoring sites being decontaminated, including the critical control measures and reasons behind them. He was followed by Manfred Künhe from Geoexperts, a consulting company in Germany, who gave a presentation about the preparation of the demolition of three skyscrapers in Cologne.

Before the final coffee break, another case story was presented by Filli Omini operations manager Vittorio Omini, who explained the demolition of the Concordia shipwreck at Genoa port, Italy.

The last session was given by the secretary general of the German demolition association, Andreas Pocha, who explained the data in the European Demolition

Industry Report 2016. The final results will be available in October with the publication of the 2016 EDA Industry Report.

He was followed by Liebherr head of department tower crane solutions Thorsten Hesselbein, who presented the use of cranes to dismantle high-rise buildings.

The final presentation titled 'The decontamination of heavy metals, a case story' was given by ERM technical director Lindsay Pepperell, part of ERM's contaminated site management team.

Gala dinner and change of president

In the evening, participants gathered for a Gala Dinner in the Glasgow Trades Hall. They were welcomed by Glasgow City Council member Bailie Fariha Thomas. She was followed by EDA president Pilar de la Cruz, with a speech thanking the Gala Dinner sponsor, Liebherr



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and its delegate, Darren Bennet, who also said a few words of gratitude.

After the dinner Howard Button was presented with a plaque for his work as moderator in the conference sessions.

James Caldwell was presented the NFDC Lifetime Achievement Award in gratitude of its work in the National Federation of Demolition Contractors, and in the demolition industry in the UK.

There then followed the announcement of Aurelio Bonaria as a new EDA Club of Honour member.

Aurelio Bonaria, who passed away recently, helped develop the European demolition industry through his company Bonaria Et Fils and his participation in the EDA. His widow Viviane Bonaria-Pundel was present to receive the medal.

This was the last action of Pilar de la Cruz as EDA president, and in an emotional speech she named William Sinclair. He in turn, as the new EDA president, announced Pilar de la Cruz as a member of the Club of Honour.

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ECOMONDO AND KEY ENERGY to meet the green challenge

The 20th edition of Ecomondo and Key Energy will be held on 8 to 11 November at the Rimini Expo Centre in Italy. In addition to the traditional sectors, such as waste – treatment and moving; waste – recycling and services; waste – collection and removal; biobased industry; reclaim Eepo and global water expo, this year's show will feature new sections including material

handling, lifting solutions and logistics and monitoring and control.

The conference programme will focus on promotion of secondary material and the circular economy. The technical scientific committees will be guided by Professor Fabio Fava for Ecomondo and engineer Gianni Silvestrini for Key Energy. There will also be a presen-

tation From 'waste' to 'used' water treatment plants: towards resource recovery facilities by professor emeritus Willy Verstraete, a world-renowned scientist and president of the International Water Association's Cluster for recovering resources from municipal purifiers.

www.ecomondo.com
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NEW HUSQVARNA WSC 40 wall saw chain attachment

Husqvarna has introduced a new wall saw chain attachment for working with Husqvarna wall sawing systems WS 482 HF and WS 440 HF. "The WSC 40 makes it possible to cut precise corners without changing to a handheld cutter and adds to the flexibility for users," said Husqvarna Construction Products global product manager construction equipment Botilda Hellberg.

The WSC 40 wall saw chain attachment, complete with bar and chain, is perfect for flush cutting, for example cutting close to the floor, ceiling or wall. "Completing your arsenal of sawing systems with WSC 40 is essential if you want an all-round system that works efficiently and precisely on every type of small or big job," said Hellberg.



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HTC sales manager for Sweden, Henrik Svärd, (left) and Catherine König, HTC marketing manager at a Duratiq 8, one of two new super modern floor grinders from the company. The machine in the picture is extra equipped with LED lights with magnetic base.



HTC's new floor grinders

HTC launched its new Duratiq series of floor grinders at the company's headquarters in Söderköping, Sweden. David Ehrenstråle reports.

There is no doubt that the two new Duratiq series models are well designed and user friendly. It is a step in the development of technology in the same class when HTC developed their diamond technology for floor grinding some 30 years ago. HTC is talking about 100 new functions and 54% greater efficiency. The meaning of the new brand Duratiq is a combination of 'Dur' in durable, 't' for technology and 'iq' for intelligence. The new machines were demonstrated for the first time to interested parties, guests and press at the head office in Söderköping. This was followed by a road show through Sweden with the culmination of displaying the new models at the Scandinavian concrete cutting and demolition show, DEMCON in Stockholm.

Duratiq machines are available in two sizes, Duratiq 6 with 600mm grinding width and Duratiq 8 with



Duratig 6, 600 mm grinding width.



The grinding head is described as hermetically sealed to protect components inside: bearings, wheels and pulleys. The head consists of two cast aluminium halves that are precision machined. The seal between them is an O-ring. The service interval is now 1000h, a doubling compared to earlier.



The control panel mounted on the grinding machine and the remote control. The graphics display on both give the user a wealth of information about the machine. The remote control is optional.

ergonomics with easily adjustable weights and reduced vibration.

The new control panel is designed for the user to have proper control of the machine. There is a graphic display with information about available and used power, grinding wheel speed, information on electricity supply and consumption, overload protection, trip measurement with hours, metres, kWh, propulsion speed or water supply, power supply, error messages, time and date. The new Duratig series is as smart as a modern floor grinder can be.

The new grinding head is made of cast and machined aluminium. Tight manufacturing tolerances and an O-ring makes the grinding head almost hermetically sealed and dust-proof for maximum reliability. Primary belt is easily strapped from the outside. Secondary belt is elastic and does not need tightening. When ordering, customers can choose three or four grinding heads. Service intervals have been extended and are now at 1000h.

The electric system is a CAN bus type, a standard, which permits microprocessors and attached equipment to communicate with each other without the signals needing to go through a larger host computer. It is a message-based protocol and the same as used, for example, in modern cars.

The electric cabinet is newly designed, completely dust-proof and equipped with a cooling system that

sits outside of the cabinet. The cabinet also has a connection of external devices such as USB memory sticks for program updates, HDMI-connected devices, mist, water, GPS and lighting. The surface cooling system also helps to lower the temperature inside which contributes to longer life of the components.

www.htc-floorsystems.com



800mm grinding width. The machines can be easily connected to vacuum cleaners and be equipped and configured in a variety of ways to suit users' needs. To provide the desired flexibility the machines have been built in a modular way. Thus, it is possible to retrofit the Duratig floor grinding machines with modules and packages for water, light, GPS and a remote control. Accessories include extra weights, electric cables, cup and mobile phone holders and bracket for remote control.

Henrik Svård, responsible for sales in Sweden at HTC, pointed out a few things: information for the user in the new control panel and remote control, new well tightened grinding head, the new chassis design for easy manoeuvrability and ease of transport, improved technology for air flow and dust removal and improved



ATLAS COPCO BREAKER *debuts in Brisbane*

The Australian contractor Earthmoving Contractors is the first company in Queensland to buy the 10t Atlas Copco HB10000 hydraulic breaker and the first in the country to use a breaker of this size for inner city bulk excavation work.

EC has a reputation in the Queensland bulk excavation basement market and is experiencing strong demand for their services from high rise developers in the Brisbane area. To meet this growing demand for EC's services, BA Equipment Group state manager Rob Guerin and Atlas Copco Australia regional sales manager Alex Bennett worked with EC for a trial of the Atlas Copco HB 10000 breaker to assess its power, production and noise and vibration levels.

The breaker was delivered and commissioned in Fortitude Valley, Brisbane in June and operated by EC managing director Jim Dupuis. Productivity was tested on a 10m³ section of Brisbane's hardest rock, called Brisbane Tuff. Their 7t breaker completed the work in 10min. The

test was then repeated with the 10t Atlas Copco HB10000 breaker, which completed the work in 5min. "The HB 10000 was breaking out more than double compared to our existing 7t HB 7000 breaker," said Dupuis. "If you work that out over an hour, day, week, month or a year, that is a massive production increase."

The vibration levels were also measured and found to be within the required parameters. Dupuis advised that this was critical, as a heritage listed building is on the boundary of the site. With all the trial criteria met EC bought Queensland's first Atlas Copco HB10000.

EC has a team of experienced operators and site personnel to complement the investment in their Atlas Copco hydraulic breakers and attachments. Dupuis also trains the EC team to ensure they are maximizing their investment. EC was the first to pioneer large breakers for use in basement excavation in Queensland with their investment in the Atlas Copco HB7000 breaker in 2011. Since then EC has seen demand for their business services grow substantially creating the need for completing more excavation jobs in less time.







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Stitch drilled holes at St. Stephen's Cathedral in Vienna

The 12th century St. Stephen's Cathedral in Vienna is a world-famous cultural asset in Austria. Environmental influences like humidity, moss and lichen and pigeon droppings have caused serious damage to the building, which requires ongoing restoration and preservation.

The cathedral is now getting lift access to the viewing platform, which will give visitors and tourists an impressive view over the rooftops of Vienna. A lift is being installed in the north tower for access to the platform. The Lower Austrian company KÜ-BOHR Betonbearbeitungs- und Vertriebs was commissioned to drill two 1.5m diameter openings in the ceiling panels of the north tower to create space for the lift shaft.

The project involved two challenges for the concrete drilling specialists: the first was the extremely hard material

of the two panels, each 200mm thick sandstone and 120mm reinforced concrete, which was extremely tough to drill. The second was the prohibition on the use of cooling water on the listed building to prevent possible water damage.

KÜ-BOHR Betonbearbeitungs- und Vertriebs turned to Tyrolit for help with the stitch drilled holes using its new dry drilling system, ideal for easy and economical drilling of reinforced concrete. The Tyrolit Dry Drilling System is a dry and clean solution, which protects the existing building structure. The DME19DP*** drill motor, in combination with TGD dry drill bits with a diameter of 102mm and the DRU 160*** drill rig, were used for the two lift openings. The switchable soft impact function accelerated work progress, particularly for these hard materials.

Many small core holes were drilled within a short time at a height of 48m and 50m, enabling the two approximately 1.5m diameter ceiling panels to be removed using a block and tackle.

The Tyrolit Dry Drilling System has been available since the start of 2015 and customers have been using it particularly for restoration and renovation work. The new dry drill bits with TGD technology are the key factor in the successful drilling of reinforced concrete. "Our TGD dry drill bits have proven themselves in applications including the decommissioning of nuclear power stations. We are not surprised that impressive results can be achieved for our customers even on smaller construction sites," said Tyrolit product manager Sergiy Avramenko.

Deep drilling with the **PENTRUDER MD1 CORE DRILL**

The German concrete cutting specialists Jan Eckert Diamanttechnik is taking advantage of the Pentrunder modular concrete cutting system, using their Pentrunder HF-drive system and wall saw track for their heavy duty MD1 core drill. This versatile drilling system allows the operator to drill both large and deep holes with ease.

The machine was recently put to test in a sewage plant where one 1.3m and one 1.1m diameter hole was to be drilled 400mm deep for a new pipe. "It went better than many 300mm holes," said company owner Jan Eckert.

For another job, where 40 holes of 300mm diameter and 8m depth were to be drilled, the system showed its abilities when another system was taking too long. With use of the stable and modular drill rig and the automatic feed, the 8m deep holes were drilled in 4h instead of two days with the other system.

With the Pentrunder drill rig longer core bits could be used and the core did not have to be broken so often,



which saved a lot of time. For the first part of the hole a 2.3m track and a 2m long drill bit were used, then the 2.3m track was extended with a 2m track and a 3m long drill bit could be used.

The automatic feed gave even pressure on the drill bit which was very important in the hard aggregate and made it possible to keep the diamond segments open.

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AquaJet's
NEW PRODUCTS AT BAUMA

The Swedish hydrodemolition equipment manufacturer AquaJet Systems introduced new products at Bauma, including the EcoClear water filtration system and two new robots the Aqua Cutter 410V and Aqua cutter 710V XL.

EcoClear has been developed to filter hydrodemolition water when working with AquaJet's range of robots. The system can handle a flow rate up to 20m³/h, and gives the operator full control to monitor and change the water pH level as well as turbidity. EcoClear also enables the safe and pollution free discharge of water back into the environment.

AquaJet reinforced the use of hydrodemolition as the safest and most sustainable concrete removal method by introducing two new cutter robots. The Aqua Cutter 410V is a combination of AquaJet's robots, 410A and 710V. The new 410V is much lighter and smaller compared to the original 710V, making it ideal for all kinds of operations, especially in confined areas. The Aqua Cutter 710V XL is a bigger version of the 710V and can reach horizontal, vertical and overhead areas up to 7m without support. With a larger footprint the 710V XL can handle higher reaction forces and has less weight/m².

Both robots come with AquaJet's latest Evolution 2.0 control system and the REVO control system for robots and power packs. This allows the robots and power packs to work together as one unit, and be controlled by the operator with a single remote control at a safe distance.

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General Equipment Company's new SP8/GH9HP Surface Planer

In the US the General Equipment Company has introduced the SP8/GH9HP surface planer, which the company claims is ideal for a wide range of job applications, including milling misaligned sidewalks and joints, removing thermo and cold plastic markings and prepping floors for new coating applications.

Powered by a 6.6kW Honda GX270 4-stroke gasoline engine, the SP8/GH9HP planer is built with a unitized, welded steel plate frame, full-length hexagon driveshaft and extra capacity ball bearings. The bearings are externally greased to extend the unit's service life.

The planer has a maximum cutting depth of 16mm, a cutting width of 200mm and a cutting proximity to a vertical wall of 82mm. Cutting depth is adjusted using a screw-type, positive locking depth selector, and the wheels located behind the drum make it easier to cut through high spots. Precise weight and balance enhance operator control and machine manoeuvrability.

Arden Equipment launches the Arden Jet

Arden Equipment has introduced the Arden Jet, a high-pressure water spraying system for factory fitment on a demolition shear for suppressing dust during demolition operations. As the waterjet system is factory designed, the result is a fully integrated and optimized spraying device.

The sprayed area to be demolished is very accurate because the four nozzles fitted on the shear follow the tool's movements. Nozzles can be fitted in different angles or changed to allow various spraying patterns to match job requirements.

The Arden Jet is available on Arden multiprocessors CU022 and CU031, as well as on dedicated shears

CD22 and CD31, for excavators ranging respectively from 17t to 27t and 26t to 37t. It will eventually be available on the entire range.

In addition Arden's concrete pulverizer BBH014 is now available with a booster creating a multiplying effect up to 700bar. Cycle times are improved and energy savings on the excavator is visible as the BBH014 booster at equal power generates 24% more cutting force than the standard version. The other specific benefit of the BB014 is that it still has its inverted cylinder despite the fitting of the booster allowing it to preserve its optimum protection of the cylinder rod. The rebar cutter, previously an option, is now available as a standard factory fit.



Husqvarna K 970 with SmartTension

Husqvarna has introduced the K 970 with the semi-automatic belt tensioning system called SmartTension and a magnesium blade guard. Updates have also been made to the Rescue, Ring and Chain counterparts. "The new K 970 is an all-round cutter for multi-purposes, and the updated features will make it even more efficient," said Husqvarna Construction Products global product manager power cutters Johan Simonsson.

"The secret with SmartTension is that you minimise the risk of under and over-tensioning. When tensioning the belt, SmartTension finds the right tension using a patent pending spring-loaded mechanism. In addition, it is easy to change the belt and reverse the blade guard. This contributes to the reliability of our K 970."

The magnesium blade guard contributes to a light weight, which gives an improved power to weight ratio. It also contributes to an increased cutting depth, now up to 155mm on the 406mm version. In addition, the new stepless adjustment on the blade guard on all new K 970 power cutters makes it easier to change cutting position.

The new K 970 still offers the original benefits of the previous K 970 that include active air filtration and an X-Torq engine that produces less emissions and has lower fuel consumption.

The updated version of the K 970 Rescue also features SmartTension and the magnesium guard. The blade guard comes with reflection tape and an updated carrying strap.

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TESMEC TO ASSIST in M3 smart motor- way project

The first Tesmec 885 Rocksaw trencher in the UK has been purchased by the specialist concrete cutting and drilling contractor A J Willcock Holeformers based in Hungerford, Berkshire, from the Italian manufacturer's UK concessionaire Castellán Group, based in Milton Keynes. The machine has been brought in specifically to initially assist in £157.9M (€188M) of major improvements to 21.6km of the M3 motorway between junction 2, the interchange with the M25, and junction 4a at Farnborough.

It will be used on the M3 motorway to cut about 14km of 100mm wide slots, 550mm deep through asphalt and concrete, and close up to either side of the central reserve, to accept cabling and drainage ducts, as part of the conversion to a smart motorway. The M3 motorway improvements are aimed at relieving congestion by using technology to vary speed limits, and the hard shoulder will be permanently converted to a running lane to create additional capacity.

The Tesmec 885 Rocksaw has a 2.5m diameter cutting wheel equipped with tungsten carbide tipped cutters, allowing the 21t machine to cut slots from



75mm to 180mm wide and to a maximum depth of 900mm. The cutter wheel can also be offset by 300mm from the outer edge of the rubber tracks.

"The ability to offset the cutting wheel is a major advantage and makes the Rocksaw ideal for working close up to a motorway central reserve or other similar structures," said A J Willcock Holeformers managing director Andrew Willcock. "I carried out an extensive evaluation of the market before deciding on the Tesmec Rocksaw and worked closely with Castellán, including a visit to the factory at Grassobbio, near Milan, to finalise the specification for the type of work in the UK, and

to comply with all the relevant safety requirements and regulations." On completion of the M3 project the Tesmec 885 Rocksaw is earmarked for a further 300km of similar slot cutting on other UK smart motorway projects. "The machine is also ideal for creating similar narrow ducting channels at airports and for motorway widening projects," said Andrew Willcock. "The Rocksaw can cut a narrow slot into an existing carriageway to allow excavators to pull away the redundant material. This will then provide access to drill holes into the clean cut edge of the existing carriageway to accept steel tie bars to link into the new extended pavement."

PJL Plant goes for Sandvik again



The UK company PJL Plant Hire & Demolition has added a fifth Sandvik QJ241 tracked jaw crusher to its rental fleet to enhance its contract crushing capabilities.

"We bought our first QJ241 mobile jaw crusher in 2015 and from a machine point of view, the QJ241 does everything that I want it to do," said PJL Managing Director Paul Harris. "It is the smallest machine in the Sandvik range and is a true city crusher. 90% of what we do is small site city work where we need this size of crusher, although it can handle small and large jobs equally well. I

am more than happy with the size and capabilities of the QJ241.

"I like the machine's integrated hydraulic conveyor that can be lowered to help in clearing blockages, the reverse crush capability that is now a must on a crusher to allow the processing of sticky material, as well as clearing blockages, and finally the autolube system. This eliminates the risk of the machine not being sufficiently serviced daily by its operator. If the bearing is not adequately and regularly greased, then it might be damaged and need replacing. A fitter is required to do that and there is

a cost for that, of course, that adds to the cost of the resulting downtime. Autolube is therefore a must.

"We previously bought seven crushers from another supplier, but the level of customer support dropped off. We replace all our equipment after just two years to ensure maximum uptime, so when that time came for our previous machines, I decided to try out Sandvik and the results have been good. I like to know that I can easily contact the right person if there is a problem and Sandvik sales manager David Hill is superb, if there is an issue, he gets it sorted."

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AUSA exceeds expectations at Bauma

The Spanish construction equipment manufacturer AUSA exceeded expectations at the last Bauma where the company had 20 of its representatives to explain the 12 machines on display to visitors to its stand. "This last edition of Bauma has been a full success because of different reasons: the number of visitors, the quality and their diversity of origins,

the interest they have shown and the image of AUSA during the exhibition," said AUSA manager for Germany Austria, Switzerland and Benelux Josep Soler. "Visitors could see the whole display of AUSA products, dumpers, rough terrain forklifts, Taurulifts, sweepers and compact multitask vehicles and check the efficiency and effectiveness of the products."



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FROM STEEL TO SOLAR POWER

In the US five Indeco breakers have been used to demolish the foundations of a former steel mill at RiverBend, Buffalo, New York, to make way for the largest solar panel manufacturing plant in the country.

The project, one of the latest ventures of Elon Musk, founder of PayPal, SpaceX and Tesla, is of huge importance to Buffalo because it is closely tied to the city's economic revival and is part of a broader plan called Buffalo Billion Dollar Initiative, which aims to attract high-tech companies to the RiverBend site.

Site conversion and construction of the new industrial complex were assigned to contractor LPCiminelli. Structures below the 93,000m² area of the new factory, and under the area designated for the utilities network, green spaces and parking lots had to be removed. The demolition project involved the removal of thick foundation slabs, supporting walls, and steel and concrete structures with uncertain locations. The job required hydraulic breakers capable of demolishing structures up to 3m below ground level.

In May 2015, after a year of work, close to 25,000m³ of concrete was demolished and hauled away together with around 3,000t of ferrous material. To perform demolition, LPCiminelli used five Indeco breakers, two HP 8000, two HP 13001 and an HP 16000. The breakers were used to demolish the underground structures where the new foundations were to be built, and to excavate trenches for installation of the utilities network.

In some cases concrete had a strength of over 70MPa, often with 36mm rebar. In some areas the concrete contained beams and other types of steel reinforcement. To further complicate operations were the low winter temperatures of -28.5°C, freezing the ground.

When excavation is complete, it is estimated that over 30,000m³ of concrete will have been demolished

and removed in preparation for the SolarCity factory. "The demolition was incredibly challenging, due to the quantity of material we removed from the ground and because we really didn't know what to expect as the job progressed," said LPCiminelli site manager Keegan Lachut. "All Indeco breakers performed optimally, but in certain situations the one that delivered the best was the HP 16000. I don't think I've ever seen a breaker giving that type of performance. In hindsight, if we had immediately understood how difficult the job would have been and the capabilities of the HP 16000, we would have rented five in place of the other models. As I said, the other breakers gave excellent performance, but given the hard task they needed more time to get the job done, especially in the most difficult situations."

The Indeco breakers and most of the other machines operated by LPCiminelli were rented from Anderson Equipment, a distributor of machinery and equipment on the East Coast with 21 branches from West Virginia to Maine. In addition to being an Indeco distributor, Anderson has a rental fleet of 70 breakers, from the small HP 350 to the HP 16000. "I think that Indeco offers some of the most reliable and productive breakers on the market today," said Anderson Buffalo branch rental manager Rod Dabolt. "Indeco is also the only manufacturer whose range includes true giants, such as the HP 16000 and HP 25000, which, like the HP 16000 used at the RiverBend site, can really make a difference in the toughest working conditions. I think Indeco breakers offer the dual advantage of having a very wide range and being easily coupled to the Komatsu excavators that we distribute. Other winning features are definitely their longevity and modular construction that allows for easy maintenance."

D-Drill goes to Newcastle University

In the north east of England concrete cutting contractor D-Drill has demolished an explosion-proof building on the side of Newcastle University's Armstrong Building. It is the university's oldest building and dates back to 1888. D-Drill had to remove the blast-proof building with thick concrete walls and a 1.2m thick roof, and work in a narrow courtyard with limited access to the site, without damaging the original structure.

"It's not every day you are asked to demolish a blast-proof building. The biggest part of the job was to remove the structure without damaging part of the original building," said D-Drill north east branch manager John Emberson. "I decided that we would need to start by drilling and hydraulic bursting the roof, then as the roof was removed we drilled and burst the walls as we progressed."

After cracking the concrete walls, D-Drill used a Brokk 90 remotely controlled demolition robot to break the concrete down to floor level before it was removed. "We always take great care to work in a very safe and controlled way, but as the Armstrong Building is such an iconic building steeped in history, this was of paramount importance," said Emberson. "We were very pleased with how smoothly the demolition went. We completed the job very safely in a quick time and this has been recognised by the university and the main contractor who have given us a lot more work as a result of this."



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ROCKSTER continues expansion in South America

The Austrian manufacturer Kormann Rockster Recycler continues its expansion plans in South America with the signing of Sanymaq, an equipment sales and rental company located in Bogota, Colombia. Sanymaq has ventured into recycling projects and recently purchased a Rockster R700S.

"Our main activity will be relying on Austrian technology to venture into areas where no other Colombian company can compete," said Sanymaq owner Jose Saturnino Barajas. "There has been a new recycling law just signed in congress which requires all companies in Colombia to reuse and recycle skip and demolition waste."

One of the projects Sanymaq is working on is in the emerging metallurgic coke recycling market. There are many smelters and foundries that have never recycled before and the new law is requiring them to recycle coke waste. By using a two deck screen to separate the coke material, combined with a Rockster R700S machine as an oversize reducer, Sanymaq is able to get two grades of clean material. "Two grades of clean cubic material is what we were looking for, so we can sell the aggregate for road base material", said Barajas. The plant gets the recuperated metal fraction, which is also paid to Sanymaq for reuse in their smelting process.



Another Rockster R900/800 Duplex crushing plant is working on the Pan-American highway in Colombia supplying an asphalt plant. "This project is recovering river stone where the nearest quarry is 50km away, so the need for aggregate using large river stone is a viable solution", said Sanymaq executive director Alejandro Valencia. The supply of aggregate for the asphalt plant is covered by the Rockster with its system of two machines in one; first the jaw to reduce size and create a stock of

material, then changing over to an impactor to generate cubic material.

"Many opportunities are opening up now since we have been working with the machine, and it has been a learning process, educating our clients for recycling possibilities and convincing them to open up to experimentation. We are also exploring many other realms of recycling possibilities throughout Colombia, as things are just getting started here," said Valencia.



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Improving efficiency with **HITACHI CONSITE**

In the UK, transport, waste management and recycling company TJ Group has enhanced the efficiency and productivity of its Hitachi fleet by using a tool called ConSite. The firm, based in Fareham, Hampshire, receives an automatic service report via email every month, which summarises operational information for each of its Hitachi machines. It includes detailed analysis of data, such as daily working hours, swing ratios and fuel consumption.

With five Hitachi medium excavators and four ZW-5 wheel loaders working across several sites in southern England, TJ Group benefits from ConSite's regular insight into the performance of each machine. According to TJ Group managing director John Gosling, it helps to enhance the efficiency and productivity of their entire business operation.

"ConSite means lower running costs over the lifetime of each Hitachi machine," said Gosling. "It builds a database, so we can learn more about our equipment and operation. And it's available at the push of a button, for health and safety, maintenance and budgeting purposes. From a budgetary point of view, we need to predict when the next service is due, and when we need to replace our fleet."



After checking the general overview, individual machine figures are assessed for hours, idling, temperatures, fuel consumption and CO₂ emissions: "The hours are useful because equal utilisation of machines across the fleet is important in terms of depreciation," said Gosling. "One site might have two machines and the operators might favour using one over another, which means one model is clocking up more hours. The hours also show how busy a particular site is. So perhaps we need to swap

machines to other sites, look at staffing levels, and check if we have the right model working there."

Monitoring fuel consumption is also vital for the TJ Group, which has a fleet of 140 trucks for its transport business. "We have always focused on the fuel efficiency of our lorries, and now thanks to ConSite, we can focus on the fuel efficiency of our construction machinery too," said Gosling. "Previously, we had to estimate fuel, but now we can accurately predict it."

Case upgrades SiteWatch telematics user interface

Case Construction Equipment has upgraded the user interface of its SiteWatch telematics portal redesigned using HTML5 and the latest web development technologies.

The simpler structure and use of drop-down menus enable the user to find and access the desired information more easily and faster. A full-screen map shows the location of all deployed machines. A click on a specific machine will open a pop-up box with all the details. In addition, a floating panel on the map

shows the set geofences, making it easy to update them as needed. SiteWatch now offers a maintenance forecasting functionality – a first in the market. This new feature calculates the date when the next service is due based on the daily usage of the vehicle, rather than just indicate how many hours of work are left before the maintenance interval ends. This makes it even easier to plan for each unit's maintenance and optimize the deployment of the fleet. Reports are easier to read in the new graphic design with expandable

panels, action buttons and icons to print work orders. The new SiteWatch portal also produces graphics showing the trends of the CAN-Bus parameters, enabling the analysis of the trends of different parameters and comparison of multiple machines.

It is also possible to customize visualization settings, changing the quantity of data shown in a single page with an information density option. The use of wizards and simplified setup pages makes factory fit and aftermarket activation easy, the company claims.

Chicago Pneumatic extends **CPDG GENERATOR RANGE**



Chicago Pneumatic has extended its range of CPGD mobile 9kVA to 200kVA diesel generators to 11 models with the addition of six new ones. They are suitable for prime power applications in the general construction and rental industries, with all models being fully CE compliant for use in Europe.

"As a result of this expansion, we are now able to offer our customers a complete range of small to medium sized mobile generators, which all provide a

combination of exceptional toughness, reliability and easy operation," said CP generator equipment spokesman Tony Calippe.

With integrated forklift slots and a lifting beam, the CPGD generators are easy-to-move. Optional features include a variety of tow bar and coupling combinations to fulfil the needs of different customers. Fully approved for use throughout the European Union, the new road trailer options mean the generators can be

easily transported between sites without the need for major adaptations.

There is an optional skid and specifically designed for applications where the unit will rest on uneven surfaces, or if moved across the ground over short distances. To provide operators with the option of extended run times, CPGD generators can now be equipped with higher capacity fuel tanks and 500h service intervals.



Nakashima Recycling Centre owned and operated by Daimatu.



Naoki Watanabe, Global Sales Director at NPK, (left) and Masashi Shinjo, Daimatu's CEO, (right) at the NPK booth at N-Expo trade show in Tokyo.

Daimatu Doken:

OKONOMI STYLE DEMOLITION

Okonomi is a very important word in the Japanese language. It means 'the way you want it'. The specialist contractor Daimatu, based in Osaka, has been involved in demolition and recycling work for 60 years. With such extensive experience, Daimatu has learnt to do it in the okonomi style of 'any way a customer might want it'. Daimatu's chief executive Masashi Shinjo provided an insight into the local demolition scene. Andrei Bushmarin reports.

Father and sons

Masashi's father Matuo Shinjo established the company as Shinjo-gumi in January 1955. Initially its main specialty was light-duty demolition performed mainly with pneumatic tools. The company operated exclusively in the Osaka area, which is characteristic of the way demolition business works in Japan. The domestic market is segmented into geographical zones, with contractors rarely venturing outside their home area.

In June 1966, the company was rebranded as Daimatu Doken. Heavy-duty demolition came into the picture in the mid 1970s when Masashi Shinjo started to work for the company. He was driven by the idea of using the latest machinery and techniques to dismantle structures in a safe and controlled manner. As part of the new strategy, Daimatu bought its first Nikko O&K excavator.

Cooperation with NPK

Daimatu tends to undertake unconventional projects, which often require using bespoke tools, and in the 1970s Daimatu embarked on a long-term cooperation with NPK. The two companies worked closely together and listening to users' needs is the best way for a manufacturer to develop products. According to NPK, Daimatu was able to pass on good advice on

many occasions. Since the beginning of the cooperation Daimatu has purchased 20 different attachments from NPK, with crushers being the contractor's most preferred choice.

Award-decorated recycler

Japan has stringent regulations on how demolition work should be performed, so demolition and recycling sites are usually off-limits for outsiders. But PDi was allowed to visit a recycling centre owned and operated by Daimatu in Osaka where the company processes large amounts of demolition debris on a daily basis. Since recycling accounts for a big part of Daimatu's turnover the contractor has a dedicated environmental division run by Masashi's brother Yoshihiro Shinjo.

A long-time member of Japan's waste management association, Daimatu was presented in 2002 with a Green Purchasing Award for its commitment to environmentally friendly techniques. Launched in 1998, this award is given to social groups, organizations and business enterprises that promote green solutions in their areas of expertise. Daimatu won the award in the small to medium enterprise category for posting videos of demolition debris recycling on its website, and promoting the technique among professional contractors and general public.

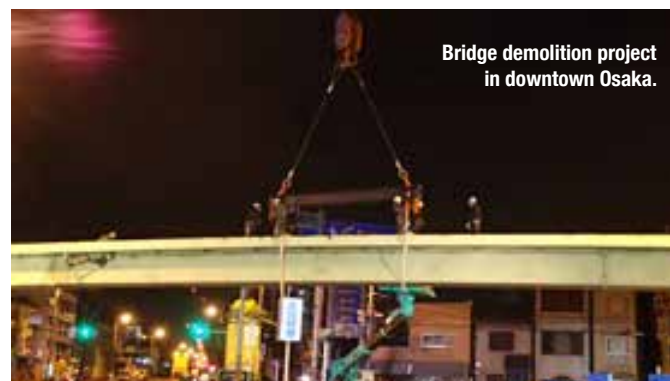
Inner city demolition specialist

With 40 employees, Daimatu is regarded as a big demolition industry contractor. The

company has a fleet of 50 excavators and about 100 attachments, with Kobelco and NPK being its favourite brands. Daimatu confines itself to Osaka city and its neighbouring prefectures and bids for government and private contracts, with approximately 20% more jobs coming from the government.

One project Daimatu recently completed was the demolition of a footbridge in the inner city of Osaka. It took 25 operators working 12 nights with gas cutting equipment to dismantle the 40m long bridge. Daimatu had to work at night because of the heavy traffic. Daimatu also used additional machines including a Kobelco SK 210D excavator equipped with a pulveriser with magnet to place protective steel sheets on the road surface, while a 550t all-terrain Saiga crane handled the cut-off blocks. The bridge girder was cut into five pieces, 8m long and the abutments, spiral staircase and stairs were also cut and removed with the project completed on time and to the specifier's satisfaction.

www.daimatu.co.jp



Bridge demolition project in downtown Osaka.



Kobelco takes demolition to the “NEXT” level

For decades Kobelco Construction Machinery has retained the title of being Japan’s number one brand in demolition. This is a major achievement, given the fierce competition from its major rivals Hitachi and Komatsu. With the leading position in Japan secured, Kobelco is now focusing on becoming a major player in Europe. Andrei Bushmarin reports.

Founded in 1905 as part of the omnipotent Kobi Steel Group, Kobelco Construction Machinery quickly evolved into a trailblazer in the domestic market of mining and construction equipment. It was the first manufacturer in the country to produce electric rope shovels, truck cranes and excavators. Kobelco is already a formidable force in Southeast Asia, and for the past three has been pursuing the goal of becoming a market leader on the European continent.

Monozukuri - the art of making things

The word Monozukuri in Japan means the process of making or creating things and can best be compared as craftsmanship in English. The word also has a more intense meaning and is about having a state of mind, the spirit to produce not only excellent products, but also the ability to constantly improve the production system and its processes. Monozukuri is the cornerstone of Kobelco’s philosophy manifesting itself in the way its Japanese operations are run.

Kobelco’s Itsukaichi flagship manufacturing plant is on the outskirts of Hiroshima, by the harbour. This is an ideal location as components and parts are shipped in, and finished products are shipped out to Europe, China and South Asian countries. Commissioned in 2012, the 35,000m² facility is a prime example of a smart factory where every manufacturing process is streamlined.

At Itsukaichi Kobelco produces mid-range and large excavators, including hybrid and high-reach demolition models. The annual production capacity for mid-range 7t to 40t excavators is 8,000 units while for 40t to 220t machines it is 500 units. Mini-excavators from 1t to 5t are made at the Ogaki factory in the Gifu prefecture.

Record-breaking building breakers

Kobelco’s demolition expertise lies in designing ma-

chines for high-reach applications. The crown jewel of its high-reach demolition range is the SK3500D model developed in 2005 by Kobelco’s chief designer Takanori Yamasaki. One of the tallest excavators ever built, the SK3500D is capable of performing demolition work at a height of 65m. The machine’s capabilities earned it an entry in the Guinness book of world records in 2006. Ten years on this giant is still employed on high-reach demolition projects.

Another demolition excavator recognized in 2009 with an award was the Kobelco SK135SRDLC model. The excavator received a Good Design Award from Japan’s Institute of Design Promotion for its original construction and versatility. Thanks to an innovative boom mounting system, the machine was capable of handling a wide variety of tasks.

Another prominent Kobelco excavator is the SK210D tailored to car dismantling applications. The SK210D features clamping arms to firmly grip a vehicle during its dismantling. The vehicle’s smaller components like strands of wiring are removed by a rotational crusher. The driver operates the crusher using a proportional control button on the joystick. The SK210D can also be used to recycle trucks, aircraft and agricultural machinery.

The “NEXT” concept

Next is the brand name of Kobelco’s up-and-coming range of demolition machines featuring the most common boom type in Japan. The key advantages are quick and safe assembly and dismantling procedure and easy transportation ensured by a special joint system. It comes with a preinstalled pin, which saves the operator a great deal of manual labour. Operators only have to put the pin on the hooks. Thanks to this solution boom assembly time has been reduced to less than 30min compared to 2h with the previous generation models.

Ease of transport has been enhanced by placing the jib and arm cylinders diagonally and by reducing the distance between the boom sections in the folded position, which is particularly relevant in case of high-reach excavators. The “NEXT” range, which at the moment consists of three models SK350D, SK400D and SK550D, will see its world premiere in 2017.

www.kobelcocm-global.com



(Left to right) Tomohiro Ono - Environmental Equipment Group Manager, Yujiro Suzuki - Overseas Operations Department Manager, Kota Nishida - Environmental Equipment Group, Ms. Takahashi - General Affairs.

WERKMASTER

repairs in Canada

High-rise construction in a city that has high levels of rain can present challenges to concrete contractors. This was the case when Canadian contractor Beedie Construction went to pour and place their parkade in Coquitlam, British Columbia. Provisions were made to protect the slab as much as possible, but unfortunately heavy rain made its way into the parkade and the damaged concrete needed to be brought up to specification. Tight timelines required a one step solution that would remove the latency left by the rain and create a CSP 3 surface profile suitable to apply a resin coating.

A WerkMaster Titan XT Propane floor grinder, equipped with shark HD segment, hard bond 16G and single HD segment was chosen because of its high rate of production and capability. An Ermator S36 vacuum was used for the dust extraction. Thanks to the method the turnaround was fast and eliminated need to shot blast and grind.

The added benefit of not needing any additional power to run the machine made start up time instantaneous. WerkMaster machines feature Octi-Disc technology of eight directly driven heads configured to allow all models to get within 3mm of a wall. The



chosen preparation method was two and a half times faster than a traditional grinder and provided 40% costs

savings. There was no shot blasting or additional edge work required.

SPEED

We continued from 1938,
is a company that is
doing the development,
manufacture of special demolition
and recycling equipment.

VALUABLE BANKSY GRAFFITI REMOVED

In the UK the concrete cutting contractor Truecut Diamond Drilling was recently faced with an unusual request on a demolition project. The company was asked to cut out a piece of graffiti painted on a wall by the world famous British graffiti artist Banksy.

TDC was initially contacted by one of their suppliers EC Hopkins about a customer who wanted a Banksy cut out and was looking to purchase a chain saw to do this himself. The supplier gave the customer TDC's details and contact was made.

"We were requested by the client to cut out the Banksy as the site is going to be demolished and redeveloped. He wanted the Banksy removed and go for restoration and storage to go back into the new building for future generations to see," said TDC managing director Colin Walker. "We gave an initial price to cut out the whole of the wall and fix plywood to either side and lower the supported section onto pallets."

After a site visit it turned out the client just wanted the quickest and most cost effective option TDC could

supply, as the render and artwork had some substantial cracking, which TDC had indicated during its site visit.

On closer inspection of the wall at another location TDC could see it was a double layer of render. They would be able to cut out a chase to the side of the artwork wide enough to get the ICS chain saw into and flush enough for TDC to cut the back of the render and face of the brickwork. "One of our senior supervisors Graham Field carried out the cutting to the saw's maximum depth. This allowed the client and his



operatives to tease and wiggle out the cut and cracked sections to the nearest crack and carefully remove to their vehicle for future placing together and restoration in a metal frame to go into the new building," said Walker.

"The work created quite a stir on social media with it even being reported as being stolen and the police turning up asking what we were doing. But the client soon allayed those fears and the boys in blue allowed us to complete our task unhindered within the day as quoted."



From left: Paulo Bergstrand, Henrik Cederholm, Mattias Snive, Thomas Vallmark, Eddie Abrahamsson, Anders Ryden, Markus Wennberg, Felix Rohdell and Claes-Göran Bergstrand

A JOURNEY that has just begun!

The Swedish floor grinding and polishing equipment manufacturer Scanmaskin has been competing with larger rivals and in recent years gained market share at the international level. PDI reports.

That Swedish methods and products for demolition, concrete cutting, floor grinding and dust handling are doing well in the international competition is not new. Swedish methods have become something of a standard in many other countries.

Favourable development in the US

A Swedish manufacturer who had a brilliant performance during the past few years is the floor grinder manufacturer Scanmaskin, based in Lindome, south of Gothenburg. The company has a strong position on the Swedish and Finnish markets, and also established itself in the US market. The US subsidiary is located in Bellevue outside Seattle. Responsible for operations in the United States is Josh Headings.

The key to Scanmaskin rapid development in the US is the strong partnership with Jon Don, suppliers of various machines, tools and equipment in flooring, renovation and maintenance industry. Jon Don has

11 sales and service offices spread across the Americas.

Scanmaskin's US success depends not only on increased sales, but also on product development. The company's products and tools are highly appreciated by users who appreciate Scanmaskin floor grinders for withstanding harsh environments.

"We have experienced and are experiencing a great expansion due to many different things," said Scanmaskin president Claes-Göran Bergstrand. "But basically it is of course our products have entered into the hearts of our customers. We have been quite innovative in the last two years. Many new products have been launched and we have improved a lot technically. For example, we provided several of our models with radio control, developed new smart floor grinders with our unique DSP system that makes it easier for the operator, launched two propane-powered grinders and launched new ranges of tools. These are some examples that has played an important role in our success."

Wide product range

Scanmaskin started working with machines and tools for preparing floor areas for different types of covering. They sold the filler material for epoxy or acrylic floors, which they still do in the sister company Scanmineral. But with this background it was easy to expand operations to start working on concrete floor as a final product. That is to develop machines for floor preparation, or processing of concrete floors to the next step to polish the concrete floor. "This was not a transition for us, but rather an extension of what we already did," said Scanmaskin marketing and sales director Paulo Bergstrand.

The market for Scanmaskin is in Europe mainly to sell machinery and equipment for harvesting of glue and polishing concrete floors. In Europe the market for polishing concrete floors is relatively small, but is increasing slightly each year. There has been a big breakthrough in the US for grinding and polishing of concrete floors and been a big success for Scanmaskin and others. Eight out

of 10 of Scanmaskin machines go to the US.

Although Scanmaskin has done very well in the US and the Nordic region of Europe other European markets the Swedish and Finnish markets continues to dominate. "We have in the past year had a better foothold in the rental industry, and currently supply to both large and small players. Some of the big rental names who buy equipment from us are Ramirent, Lambertsson, The National Rental Team and Stavdal," said Claes-Göran Bergstrand.

Scanmaskin recently started cooperating with the Swedish retail chain Bolist who selling small grinders for wooden floors through their network of 198 stores in the country. The products that are mainly purchased by rental companies are Scanmaskin Scan Combi Flex 330, which is available in four different models and Scanmaskin 18 that was developed for sanding wooden floors. But now this model is also used for grinding concrete floors. But other models popular among rental companies are SC500i / 500PD, SC650, SC700RC and SC1000RC.

Other models in Scanmaskin range are Scan Combiflex 450 Scan Combiflex 450NS, Scan Combiflex 500PD, Scan Combiflex 500i, Scan Combiflex 650 DSP, Scan Combiflex 650 Scan Combiflex 650 Propane, Scan Combiflex 700 RC (radio controlled), Scan Combiflex 800 Scan Combiflex 800 Propane, Scan Combiflex 800 DSP, Scan Combiflex 800RC and Scan Combiflex 1000RC. Propane models are sold exclusively in the US.

The smart DPS system was launched in late 2015 and offers operators a detailed guidance for the selection of tools, information on documentation, troubleshooting, and more. It is available in two models, SC650DSP and SC800DSP. Scanmaskin offers radio control on three of its models, SC700RC, SC800RC and SC1000RC. In addition to its range of grinding machines Scanmaskin has four dust collectors. The ScanDust 2800 has recently been upgraded and is now called ScanDust 2900.

Scanmaskin also develop their own tools for a variety of different applications. There are tools for

demolition of concrete floors, grinding, polishing, and tools for steel surfaces, and impregnating for curing and surface protection. The company recently updated their tool series and launched the new Bauta, Single Roudon Crush and Single Roundon Tiger and two new PCD tools. Scanmaskin has its own system for grinding and polishing of concrete floors to a high gloss finished product called Scan Combifloor.

In recent years, Scanmaskin launched a lot of new products and they do not intend to slow down. The new DSP grinders will be launched with radio control.

A costume to grow in

The factory in Sweden has 23 employees and builds about 1,500 machines/year. "From May his year we increased production by 20%," said Paulo Bergstrand. "The largest volumes are with the mid-sized machines, such as Scan Combiflex 650. We have noticed a clear increase even on the larger machines, such as the Scan Combiflex 700 RC and 800 RC with radio control. It is especially the Americans who are asking for these 800 models."

"We work with some different solutions in order to grow in our current premises. Today there is no problem, but if we continue to increase at the rate we do now, we will need more space," said Scanmaskin production manager Henrik Cederholm.

Current group turnover is about €12M, with Scanmaskin accounting for about €8M and forecasting an increase to €9M this year. "The plan is to reach €10M in two years. This should be compared with 2009, when our turnover was €2.5M," said Claes-Göran Bergstrand.

US market as large as Europe, not counting the Nordic region

Jon Don's dealership in the US has been a big influence in increased sales but Scanmaskin has a strong domestic market, which also includes Denmark, Finland and Norway. It also has good existing distributors in a number of European countries. This year Scanmaskin signed an agreement with the German manufacturer of diamond tools, Heger Diamond Tools, which has a strong position



in the German market. "We are seeking more dealers in Europe and other parts of the world. For example, the Middle East has proved to be an increasingly attractive market," said Paulo Bergstrand. Scanmaskin currently has 30 dealers in as many countries.

Scanmaskin is exporting about as much to the European markets, not counting the Nordic countries, as it is to the US. But the US is increasing as well as the cooperation with Jon Don, so it should not be long before US exports overtake Europe.

www.scanmaskin.se





Don't underestimate the **CUTTING TORCH**

The cutting torch is a very useful tool on many demolition sites, but needs to be handled with care. This article explains some of the important things with handling a cutting torch.

A common method in demolition is to use different types of cutting torches powered by oxygen and acetylene or propane gas to cut different types of steel structures or rebar. In some markets, like the US torches are more dominant than for example in Europe. The reason is simple and has to do with how buildings have been designed. In the US buildings are often built with pre fabricated modules to a bigger extent than in Europe. The basic structure is often steel frames. The dismantling of such structures is often done with scrap shears but often they are too weak so the steel needs to be cut with a torch.

Understand the cutting process

An oxygen/acetylene torch is a dangerous cutting system, but with precautions and practice, it can be used to cut steel to size and shape. Aluminium, stainless steel, and other metals and alloys cannot be cut with a cutting torch.

Proper protective clothing is needed. Fire retardant clothing is recommended but, if not available, wear well fitting cotton clothes. Nylon and most other common synthetic clothes will rapidly burn if caught on fire. Sturdy, leather-soled work boots are recommended. Safety equipment including a set of cutting goggles and heavy leather gloves is also a necessity. And last but not the least a fire extinguisher is important to have nearby.



Set up your work in a safe environment

Working on earth or a concrete slab is highly recommend. Do not allow the flame to contact concrete, especially fresh concrete, as it may cause it to expand and crack violently. Use a striker to ignite torches.

Use of the Cutting Torch

Put gloves and goggles on before lighting the torch and check the work area for combustible materials. Light the torch. Open the acetylene valve again, allowing the oxygen remaining in the mixing chamber to purge for a few seconds, then shut the valve until you can barely hear gas escaping. Holding the striker in front of the torch tip, with the tip facing inside the striker (or toward the ignition source, for electronic strikers), squeeze the handle. A small yellow flame should appear at the tip when the sparks from the striker ignite the acetylene. You are ready to go.

Adjust the acetylene valve until you have a yellow flame about 250mm long. Make sure the flame begins at the torch tip; if too much acetylene is supplied the flame will jump, or be blown away from the tip. Turn the forward oxygen valve on slowly. The flame colour will turn from yellow to light blue as sufficient oxygen is supplied to completely combust the acetylene. Increase the oxygen until the inner blue flame begins to shrink

back toward the tip. Open the oxygen valve more to increase the flame size until the length of the inner flame is just over the thickness of the steel you are intending to cut. If you hear a blowing noise, or the blue flame seems erratic and feathery, there is probably too much oxygen at the flame; reduce it until the flame is stable and the inner flame is a clean cone shape. Bring the tip of the inner flame to the surface of the steel you are going to cut. You will need to heat the steel with this flame until a molten pool of metal forms. For 6mm plate at room temperature, this should take about 45s; however, it will take longer for heavier material or material at low temperatures. Keep the tip of the flame steady and about 9mm from the metal's surface to concentrate the heat in one location.

Push the cutting valve handle down slowly to release the oxygen jet, which ignites the molten steel. If a violent reaction instantly starts, the steel has ignited, and you can gradually increase pressure until the jet cuts through the metal. If no reaction occurs, the metal is not hot enough to ignite, so you can release the oxygen handle and continue to allow the flame to heat the metal more.

Begin moving the torch tip slowly along the line of your cut when the jet is cutting through the steel. You should observe that almost all of the sparks and molten slag are being blown out the back or bottom of your cut.

If this flow of superheated material slows or backs up, slow your forward speed or stop and let the metal heat more. It is better to cut too slowly than to try to cut too quickly.

Continue cutting until you have parted the metal or finished the cut. Make sure the slag and any droplets of heated metal do not get underfoot.

Costs and training

To find equipment for metal cutting is quite easy but to find the right type of equipment to the right price can be tricky. There are many suppliers around the world. Often the suppliers of gas also provide the equipment. A kit of gas nozzles for cutting excluding the hoses cost between €1000 to €3000. On top of that comes the cost for the gas bottles, a hose kit, gas regulator and some other accessories to make the work smoother. A complete set including full bottle is around €5000. The gas is not so expensive and represents maybe about 20% of the cost. The biggest cost is the labour and the equipment.

To work with gas on the demolition site also requires training. Different courses on how to handle gas and cutting torches are offered by a number of companies. Often the provider of gas also has training programmes. Also different associations offer training courses. If your company is a member of a branch association best thing is to ask them.



Keestrack in Ponzano Veneto

Mineral processing plants have been built in Italy for more than 50 years by Officine Meccaniche di Ponzano Veneto, in Ponzano Veneto, 30 km north of Venice. It has been part of the Netherlands based Keestrack group since 2010 and renamed Keestrack-OM.

After the integration the product portfolio focussed on jaw crushers. With its B series Keestrack now offers four models from the 30t allrounder B3 to the 60t top model B6 producing around 350t/h. The continuous development of modules and concepts is ensured by the in-house design department, which works closely with production on improvements or new machine concepts. Examples are the impending electrification of the jaw crusher range and the new Keestrack cone crusher series, recently introduced with the model H4. In 2017 Keestrack will introduce diesel-electric hybrid drives with plug-in option for its mobile jaw crushers as an alternative to the existing diesel-hydraulic drives.

This technology is already a key characteristic of the new tracked cone crusher H4, developed at the Italian Keestrack facility in co-operation with a renowned crusher manufacturer. A new frame design allows the optional equipment with active pre-screening and a triple-deck production screen module with oversize return conveyor giving a transport weight of 46t and width of 3m. An intelligent plant control, to be combined optionally with the GPS supported remote machine monitoring system

Keestrack-er, ensures the efficient production of several quality end products in just one pass with only one mobile plant.

“Our communication between design and production enables us to optimize continuously the efficiency and flexibility of our processes in recent years,” said production manager Tiziano Zago, who has 40 years’ service with the company. Currently the pre-assembly of specific crushers and drive modules and the completion of the different models are organized in 11 assembly stations. “Depending on the model and ordered options our average lead time in one-shift-operation is about three weeks per machine,” said Zago.

For the provision of steelwork and components Keestrack relies on long-standing regional suppliers and the close co-operation with the Czech sister company in Sternberk, where the manufacturer invested in steel construction and finishing processes in recent years. Depending on specific models, the proportion of internally supplied parts and modules is currently 40 %.

“With the upcoming hybrid generations of our jaw crushers and the new cone crusher series we expect a further increase of our production capacities,” said director Peter Hoogendoorn. “At present annual production is set to reach around 60 machines. Maximum capacity with three shifts and correspondingly organized supply schemes might reach around 200 machines per year.”



CTT'S LEADING POSITION in CIS construction machinery sector

The 17th international exhibitions Construction Equipment & Technologies was held from 31 May to 4 June 2016 at IEC Crocus Expo, Moscow. The show attracted 524 exhibitors from 26 countries and 21,000 visitors from 59 countries.

As a key event for the professional community of Russia and the Commonwealth of Independent States (CIS), which this year occupied 65,000 square meters, CTT offers participants and visitors the opportunity to learn about the latest innovations in the industry, meet with government representatives during the business programme, discuss the latest trends and share future plans.

In 2016, the show brought together companies from Russia, as well as 25 countries from the CIS and further afield. “Summing up the results of this year’s CTT, I can say with confidence that in spite of the difficult economic situation in Russia, this exhibition has brought us good results,” said GEDA RUS marketing manager Ekaterina Makarova. “Last year, the percentage of people interested in cooperation was 50% of all contacts, while the figure this year has risen to 80%. This year at our booth, we could also see positive dynamics from regional companies, which reflects a growing interest in new construction technologies, not only in the central part of Russia.”

Leading international associations and agencies have supported CTT for a long time. Among them are the Committee for European Construction Equipment, Association of Equipment Manufacturers, China Machinery Engineering Corporation, China Construction Machinery Association and South Korean Sales Office for Construction Engineering. The CTT is also officially supported by the Russian State Duma Committee on Land Relations and Construction, the Ministry of Construction Industry, Housing and Utilities of the Russian Federation, the Ministry of Industry and Trade of the Russian Federation, the Russian Union of Builders, the Russian Chamber of Commerce and Industry Committee for Business Activities in the field of Construction, the Moscow City Department of Urban Policy and the Moscow Region Government.

The next CTT will take place at IEC Crocus Expo, Moscow from 30 May to 3 June 2017.



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POWERSCREEN BOOST Warrior 2100 versatility

The quarrying and materials recycling equipment manufacturer Powerscreen has increased the versatility of its Warrior 2100 triple shaft screen with the addition of the Spaleck and a single shaft screen variants to cover an increased variety of applications and solutions.

The new Powerscreen Warrior 2100 Spaleck screen incorporates a double deck waste recycling screen with a Flip-Flow-bottom deck. The new single shaft screen variant enables the Warrior 2100 to screen in less demanding applications.



Hyundai's new crawler excavators



Hyundai has added two excavators HX430 L and HX480 L to its extensive range of machines. The 44t HX430 L crawler excavator, which has a bucket capacity of 1.9m³ and an overall width of 3.34m with 600mm track pads. It is powered by a 236kW Cummins QSL9 4-cycle turbocharged air cooled diesel engine complying with the latest Stage IV emission standards. The slightly larger 49t HX480 L is powered by a 331kW Scania DC13 084Ac 4-cycle turbocharged air cooled diesel engine, also complying with the same Stage IV emission standards.

New Husqvarna dust collector DC 6000

Husqvarna has added the DC 6000 dust collector incorporating a self-opening gate valve, a new filter, which enhances cleaning and keeps a continuous air flow over time, and an improved raise and lower function.

The new DC 6000 is user-friendly, contributing to higher efficiency and greater performance. It is also more automated, enabling operators to grind non-stop and keep a better focus on the result. "With the functions of the new gate valve, the cyclone with dust is auto-dumped every three minutes. This prevents overfilling and saves time for the user," said Husqvarna Construction Products floor grinding global product manager Joakim Leff-Hallstein.

Another update is the cone system on the cyclone and filter units. The



cones ensure the dust remains in the bag after being dumped. It is also easy to see how full the dust collector is while operating.

Also, DC 6000 has an improved raise and lower function. It is now a one man operation to lower and raise the unit, with a rail attached to the lower frame and bearings attached to the upper frame. "All the updates combined mean higher efficiency and significantly less dust on the floor and in the air, which saves time, but also contributes to a more healthy environment for users," said Leff-Hallstein. "I am sure that the new version of our DC 6000 will receive a warm welcome on the market."



Tyrolit's new saws

Tyrolit has added two new electric hand-held saws, the HRE400*** ring saw and the HBE350*** hand saw.

The HRE400*** ring saw is aimed at the requirements of concrete sawing and drilling contractors for cutting corners without overcuts. It has a cutting depth of 317mm and ideal for smaller cut outs such as windows. Thanks to its compact design and weight of only 10kg, the saw is lighter than comparable models and well balanced. The saw is equipped with a 3.1kW electric motor with fully integrated electronics, so that no further equipment is needed. Power is transmitted by the patented drive-roller system. The power transmission becomes even more effective at increased pressure, so that slippage is prevented.

The HBE350*** hand saw is the new 2.8kW all-rounder featuring a combination a low weight of 7.9kg, universal suitability and easy handling. It has a saw blade diameter of 355mm, with a 125mm cutting depth suitable for wet and dry cutting. The integrated dust extraction connection enables clean working both indoors and outdoors.

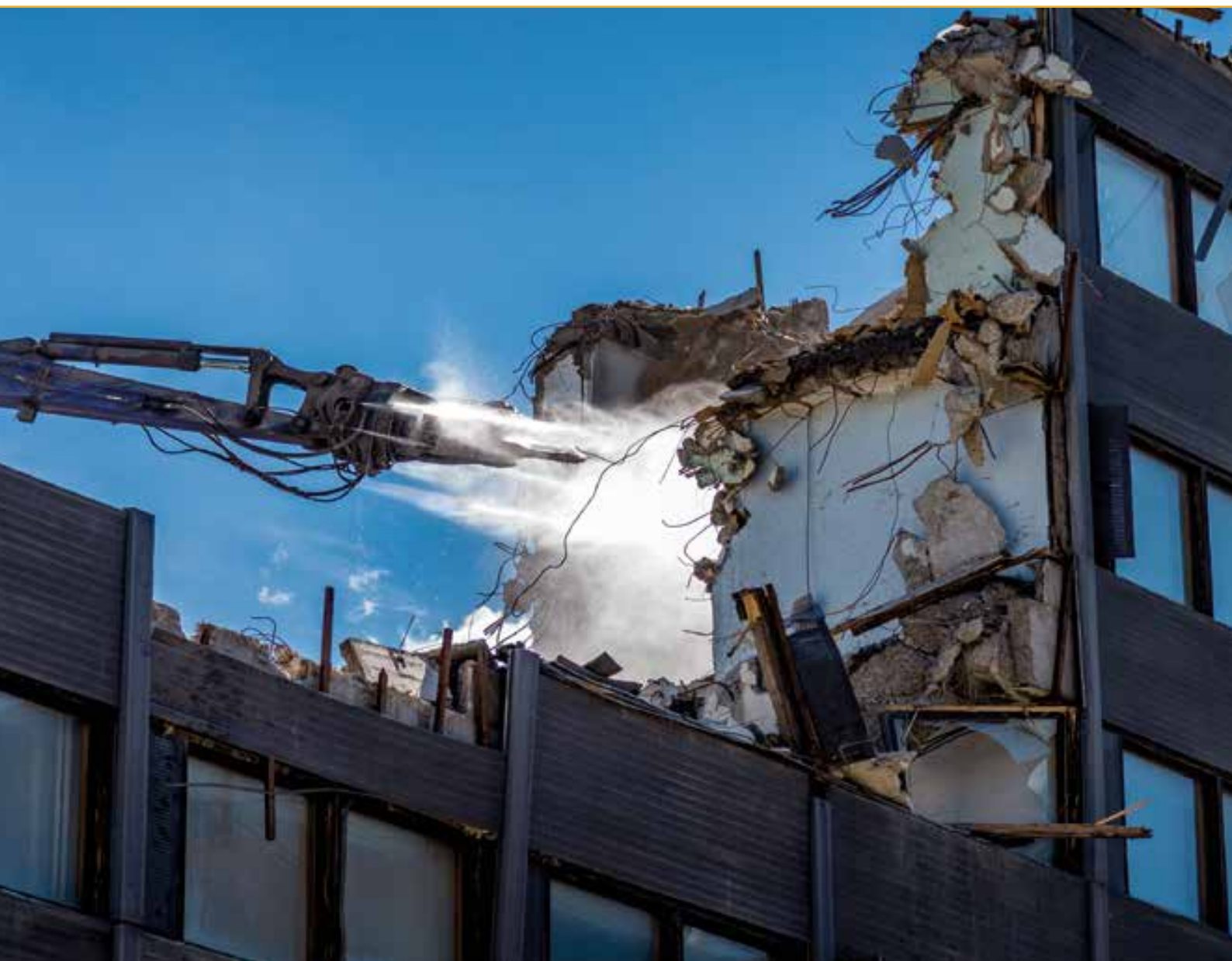
The HBE350*** hand saw was especially designed for universal cutting applications, such as natural stone, clay brick and concrete. It can also master smaller wall cut outs for installations and slots for expansion joints.

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Robot assists Christchurch **REBUILD**

An Aqua Cutter hydrodemolition robot, from the Swedish company Aquajet Systems, is playing a key role assisting in the installation of part of a new wastewater system in New Zealand's south island city Christchurch, which was severely damaged in a major earthquake in February 2011.

The system is being installed by the Stronger Christchurch Infrastructure Rebuild Team, as part of a NZ\$85M (€51M) investment in design and construction of new and rebuilt infrastructure in the city's district of Aranui.

Repairs to the Southern Relief form one of SCIRT's biggest projects this year. The work entails a wastewater trunk main running through densely populated parts of Christchurch. The challenge is working in confined

spaces and SCIRT is using the robot for part of the repair work for efficiency and safety reasons.

The hydrodemolition robot called Geo is providing faster and safer results for SCIRT's McConnell Dowell team working on the Southern Relief project in Linwood. "The thought of repairing underground pipe cracks with a hand held lance, in a confined space, is enough to make any health and safety officer concerned and a crew member's blood pressure rise," said McConnell Dowell project engineer Stuart Anderson.

This is the challenge that McConnell Dowell and subcontractor Concrete Treatments NZ faced repairing the wastewater trunk main that was significantly damaged in the earthquakes. The trunk main is a 1.2m x 1.4m box culvert that takes wastewater from more than

200,000 households around Christchurch and moves it to the Bromley wastewater treatment plant.

"Using the water pressure at the flow rate required to carry out the repairs, combined with the length of lance, would pose a serious risk to the operator's safety," said Anderson. "The solution was CTNZ's purchase of the automated robotic hydro excavation tool. This has the ability to use the tool remotely, replacing hand held lancing. The robot's compact nature allows it to enter and repair the box culvert safely and efficiently. Geo's articulated arm can reach 3m into horizontal, vertical and overhead areas and its use has enabled a safer working environment for the crew. It means that crew members aren't placed in an unsafe position to deal with flying concrete debris in a restricted space."



SANDVIK QE241 PROVES IDEAL IN AUSTRIA

Sandvik's dealer in Austria BAG Klösch Aufbereitungstechnik has successfully demonstrated its new QE241 mobile scalper to construction materials provider Staber Holding. Following the trials screening and scalping dolomite and limestone carbonate the company bought the machine to improve its quarrying operations. Since its acquisition in April this year the QE241 has been operating single shifts in Staber's Drau Valley sand and gravel pit in Pöllan and has been producing between 120t/h and 300t/h, depending on material requirements.

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2016 WJTA-IMCA EXPO

The 2016 WaterJet Technology Association and Industrial and Municipal Cleaning Association Expo will be held 2-3 November at the Morial Convention Center in New Orleans. The WJTA-IMCA Expo is the premier trade-show and educational programme dedicated to high-pressure waterjet technology and industrial/municipal cleaning. Representatives from all related industry sectors, including waterblast cleaning and field services; paint/coating removal and surface preparation; concrete removal; industrial and municipal vacuuming; hydro excavation; and field cutting are invited to attend.

"Our goal is to help equip participants with the tools necessary to succeed in a competitive and challenging marketplace through educational programmes, safety practices, equipment options, innovative live demonstrations and opportunities to connect with high-level contacts and build new relationships," said WJTA-IMCA association manager Peter Wright. "Industry professionals can see and learn about new robotic waterblasting equipment, safer and more ergonomic manual/semi-automated waterjetting equipment, and advanced vacuum trucks/hydro excavators. Highlight of the educational programme is the panel discussion 'The Future of Our Industry.' Panellists representing contractors, industrial facilities and manufacturers will share their insights into future challenges and opportunities.

"So much has changed in the hydroblasting and municipal cleaning industry in the past few years," said panel organizer and moderator Kerry Siggins, and StoneAge chief

executive. "The automation movement has inspired technology development. A laser like focus on safety has instigated updates in plant and contractor safety practices and programs. Manufacturers are continuing to create solutions to address tough application and environmental challenges. And industry leaders grapple with change due to consolidation within the industry and a shrinking workforce pool. Join us on 2 November, as our panelists explore these issues and their potential impacts on the future of our industry."

The Boot Camp educational programme will cover focused, industry-specific information and training to improve safety, productivity and the bottom line. Topics include waterblasting safety devices and use, OSHA regulations and new developments in foot protection, productivity through automation, electronic driver log requirements, hydroblast training and best practices, new requirements for vacuum trucks, pressure loss, and trends in hydro excavation.

A focused global exposition of new industrial waterblast tools and equipment, trucks, ancillaries and services will be on display in the exhibit hall. Participants will see cutting equipment operate, the mechanics behind the operation and observe safety practices necessary to avoid site accidents during innovative live demonstrations.

Networking events, including the Northern Safety and Industrial-sponsored Industry Appreciation Reception on 2 November will give participants opportunities to connect with industry leaders and make valuable new contacts.

www.wjtaimcaexpo.com



CSDA to meet in Puerto Rico

The US Concrete Sawing and Drilling Association is heading to Puerto Rico for the association's 45th Annual Convention and Tech Fair, 14 to 18 March 2017.

Puerto Rico is an ideal location for industry professionals to meet, network and relax and is easily accessible for American and international travellers.

CSDA has chosen the Gran Meliá Resort as the convention venue, an architectural gem nestled on Puerto Rico's north eastern coast in Coco Beach, Río Grande. The resort provides the privacy and exclusivity needed for convention delegates to truly escape from

the rest of the world, yet is just a scenic 30 minutes from Luis Muñoz Marín International Airport and San Juan.

The CSDA Annual Convention is attended by owners, managers and operators from concrete cutting, polishing and imaging companies as well as representatives from manufacturers and distributors who support the industry with products and services. Anyone who falls into these categories should join CSDA for this important networking event. Registration opens September. info@csda.org.

www.csda.org



Eslich Wrecking Company recognized by Ohio House of Representatives for 60 Years of Distinguished Service

The Eslich Wrecking Company of Louisville, Ohio has officially achieved 60 years in business as a leader in the demolition world and an asset to the surrounding communities. Eslich Wrecking's recent milestone was recognized by the Ohio House of Representatives with a distinguished certificate that you'll find hanging in the office of Eslich Wrecking. Since 1956 Eslich Wrecking has helped shape the Northeast Ohio region and beyond by demolishing neglected structures in order to make way for new development.

Founded by Michael Eslich and today led by Rich Eslich Sr. along with his sons. The demolition knowledge, experience, and professionalism that pours from these Eslich men is unmatched. Their operation contains over 60 valuable team members, some of whom have been employed by Eslich Wrecking for over 30 years.

"We are truly honored to reach such a huge milestone and we understand the pres-

sure because most third generation family businesses do not see a 60th anniversary, so we want to continue to work hard and build upon this success." Said John Eslich regarding their anniversary achievement.

The Eslich Wrecking Company has completed hundreds of successful projects ranging from residential houses to full service industrial facilities. The company is able to self-perform nearly any size demolition project because of their vast resources in experience, equipment, and most importantly their team of people. Eslich Wrecking has the ability to bond nearly any size job and they're fully insured and licensed. Eslich Wrecking is a regional comprehensive company that focuses on Ohio, West Virginia, and Pennsylvania but with capacity to perform projects anywhere in the continental United States. The Eslich Wrecking Company is proud of their legacy of tradition and quality in the demolition field.

www.demolitionassociation.com

OSHA to Increase Penalties for Violations August 1st

Recently, the US Occupational Health and Safety Administration (OSHA) announced they will increase penalties for violations of standards in the US, effective August 1, 2016.

OSHA, as well as other federal departments and agencies are authorized to increase such penalties under authority of legislation passed last year, the Federal Civil Penalties Inflation Adjustment Act. The increases, effective August 1, are based on the Bureau of Labor Statistics' (BLS) Inflation Calculator and the fact that the last increases took place in 1990. A dollar in 1990 has the same purchas-

ing power as \$1.84 today. For OSHA, the maximum penalties compared to 1990 levels for willful violations represent a 78% increase. For example, the scale for serious and willful violations will increase from \$5,000 - \$70,000 to \$8,908 - \$124,709. Increases for all types of violations will be published in the Federal Register in the form of an interim final rule from OSHA. While OSHA will invite public comments, interim final rules when published are effective immediately on the designated effective date and are rarely changed due to public comment.

www.demolitionassociation.com

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