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Address: P.O. Box 786,
SE-191 27 Sollentuna, SWEDEN

Visitors address:
Skillingevägen 14A, SE-192 71 Sollentuna, Sweden

Phone: +46 8 631 90 70
Telefax: +46 8 585 700 47
E-mail: info@pdworld.com
Website: www.pdworld.com
ISSN Registration: ISSN 1650-979X

EDITORIAL STAFF

Editor-in-Chief

Jan Hermansson, Jan.Hermansson@pdworld.com

Assisting Editor-in-Chief

Anita do Rocio Hermansson,
Anita.Hermansson@pdworld.com

Editor Europe: Mikael Karlsson,
mikael.karlsson@pdworld.com

Editor North & Central America

Jim Parsons, jim.parsons@pdworld.com

Editor South America

Luiz Carlos Beraldo,
luizcarlosberaldo@gmail.com

Editor Recycling: David Ehrenstråle,
david@flaskborsten.se

Editor Asia Pacific: Barbara Grace,
barbara@cmma.org.au

Editor Russia & Eastern Europe

Andrei Bushmarin,
andrei.bushmarin@pdworld.com

Editor Africa

Kevin Mayhew,
designmp@iafrica.com

SALES OFFICES

International Sales Director

Germany/Austria/Switzerland/Liechtenstein
/Benelux/Finland/France/Spain/Portugal and Italy
Andrei Bushmarin
Phone: +7 921 949 27 81
E-mail: andrei.bushmarin@pdworld.com

Sweden, Norway & Denmark

Contact the Editorial Office
Phone: +46 (0)8 631 90 70, Fax: +46 (0)8 585 700 47
E-mail: info@pdworld.com

North & South America, UK & Ireland

Darren Dunay
Dunay Associates
P.O. Box 119, Westwood, NJ 07675, USA
Phone: +1 201 781 6133, Fax: +1 201 664 1829
E-Mail: darren.dunay@pdworld.com

Australia/New Zealand/Asia Pacific/Korea/Japan and rest of the world:

Contact PDi editorial office in Sweden.

Publisher

Jan Hermansson

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FRD
FURUKAWA



WHERE EXPERIENCE COUNTS

Fulfilled desire an antidote to chaos

To link a little bit to Julie White's column on this page, I unfortunately think that mental illness is a growing problem today, not only in the construction industry, but in many other businesses as well and among people in general. Living today in the 21st century, a significantly larger proportion of the world's population lives relatively well materially, especially when compared to say 100 years ago. But we have never been as unhappy as we are now. I have no exact scientific research to support this, but it is often something you read about, or hear in media or social media.

100 years ago, I think the requirements on the individual were not as high as we experience today. We were not bombarded through media and social media about how we should look and live. The ideal was lower, and people at that time were more focused on the minutiae of daily life. Today, large parts of the world's population, and not just the western world, do not have to strive just to survive, so have more free time to worry about things that are relatively unimportant. In large parts of the western world this has gradually led to rather introverted thinking, with young people especially spending an enormous amount of time being fixated with their physical appearance, doing and saying the right thing socially and professionally.

This is, for many young people, is not a fitting fancy, as the demands coming from the outside world have increased significantly, with fashions and trends changing rapidly. At the same time, especially in what we term to be the 'west', we have also gained a more liberal view of society and how we live. In most countries today it is a human right to live, speak, enjoy and be as you are, and this is how things should be. But sometimes it could be argued that things have gone too far. I recently heard that in Brazil it has been suggested by some politicians, that only at the age of 10 should a person's gender be officially determined. I have every respect for the fact that each person should have the right to determine their own sexuality, and decide for themselves what gender they identify with, but feel this Brazilian proposal is extremely controversial.

This desire for openness has also created social counter revolutions, which have been a cause of many conflicts in the world. The war in the Middle East, the Arab Spring, and the refugee crisis have also stirred up emotions and launched forces that we in Europe believed we left behind us. All these together, combined with a world where the edges are blurred, also creates uncertainty and lack of direction in life for many; a world in chaos if you wish.

Above all, it is the young men who feel the worst today, if we are to believe the Canadian clinical psychologist Jordan B. Peterson. He states that many young men whom he meets lack a clear direction in life, and in short term goal achievement, finding little meaning. There is also a desire for greater clarity as to how to live, and for what purpose to strive for. This scenario is quite tragic, but I'm not sure this is totally correct, as Peterson has received a great deal of criticism for his views, and has been considered provocative in many political circles, especially amongst feminist commentators. Peterson claims, however, that he is not provocative but rather the opposite. He explains how things are related to scientific studies mixed with his own opinions. Peterson's adherents, who are growing in number, say that Peterson clearly expresses what many people think, and very much what he preaches is about common sense, which in today's society is often forgotten.

Peterson often refers to the Ten Commandments as a good start to a sensible life, and he relates to the commandments a great deal in his own book, '12 Rules of Life - An Antidote to Chaos'. In any case, whatever your own views, I believe that in order to try to deal with the increasing amounts of mental illness, the fulfilment of the desire for a meaning in life, which many people long for, has to be fulfilled.

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



VERY UPBEAT

Everyone knows I am very upbeat when it comes to our industry. I absolutely love it.

I think I've mentioned in this column previously that I've told the national media in the UK that concrete drilling and sawing is sexy, much to their surprise. It's definitely not fake news! However, there's an issue in construction across the world that none of us can shy away from, one that we must talk about more, and one that we have to address. I'm talking about mental health and wellbeing, and how our sector needs to tackle the matter head on for the good of our workforce, their families and our businesses.

In the UK, male site workers are three times more likely to commit suicide than the average UK man, which is extremely troubling for someone who runs a business in this sector. Our Office of National Statistics found that between 2011 and 2015, of the 13,232 in work suicides recorded, those within the skilled construction and building trades made up 13.2%. I can't tell you how upset that stat makes me feel and, as an industry, we can't let this go on.

The figures I've quoted are from the UK, but this is an issue that the industry around the world is having to get to grips with. As societies, we have come a long way, and the stigma of talking about our mental health is starting to be eroded. Campaigns such as 'World Mental Health Day' are a great way of removing the taboo of talking about a topic that would have gone unspoken only a few years ago. And there is definitely an acknowledgement now in construction that our sector, and our people, are suffering the affects more than others.

Why? I've read that it is because of relative low pay in our sector, because there is a constant battle to meet deadlines, be within budget, and that while we've all spent years protecting our people physically with updated health and safety measures, we haven't kept up in terms of mental wellbeing. Is it the type of people we attract to enter our industry, or the notion that construction is a 'macho' industry, and that the guys onsite would never want to show weakness – either physically or mentally – so they store away their feelings until it's too late?

It's probably a mixture of reasons and, of course, everyone who suffers with



a mental health issue doesn't end up taking their own life; that is the extreme end of it. People who are suffering could end up leaving the sector or have time off absent. As well as the human side to it, it is an economic issue too as it costs the industry financially if workers are suffering onsite or are unable to work.

For me, however, this is way beyond the bottom line. I want a happy, open workforce, who knows they can be upfront and honest if they are suffering in any way. I need them to know that there is a door open and that we will take their issue seriously, and deal with it appropriately. We all accept that deadlines, budgets, demanding work, being away from home and sometimes unsociable hours are a part of what we do, and are not something we can remove from the industry. But we can help our people to manage those aspects of the job and spot the signs when they are not.

At the extreme end, if you do see signs that someone could be at risk of suicide you, as a business owner or manager, need to know how you should handle that and what steps you should take to support that person. I have been reading up a lot on the topic but I am certainly not an expert in it. I'm just determined to find out more to make sure I am as aware as possible of any warning signs and what to do.

The next IACDS Convention is from 11 to 14 April next year, and takes place in Munich during the bauma show (from 8 to 14 April, 2019) and this is a topic that I will be pushing to be on the agenda. As an industry, we have shown time and again that when we tackle an issue head on we can bring about positive changes, and that is something I sincerely want us to do when it comes to mental health.

So please get the convention date in your diary and contact me if you have any thoughts or suggestions. Also, don't forget to get your entries in for the 'Diamond Awards' to make sure you get your company's skills, knowledge and expertise recognised all over the world. More information is available at <http://www.iacds.org/diamondaward/diamond-award-2019>

Julie White, President of IACDS
juliewhite@d-drill.co.uk



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Words from the EDA President

THIS IS HOW EDA STARTED

This year is very special for EDA because it is 40 years since its foundation, which took place in 1978. At that time, the demolition industry had also evolved significantly and EDA allowed the demolition companies to keep up itself and be actors and not mere spectators of the evolution of our sector. The European national associations that already existed in this area, such as those of the Western European countries, were the promoters of this initiative. Little by little, many others joined until the current moment in which EDA has 77 members, including companies and associations.

In those first years, I remember, with special affection, the first Secretary that EDA had: Robert Basart. His exceptional personality, his active character and his very efficient way of working meant a great boost to make the entity we are today. Those who had the pleasure of knowing him and collaborating with him, remember him with affection and sympathy. Since the first meeting that took place in Paris, much progress has been made and more and more members have been joining little by little because they have verified that together we work better.

The second Annual EDA convention, which took place in Hamburg, gathered about a thousand people. Since that moment, I have been linked to EDA uninterruptedly. And I have had the pleasure of collaborating in different activities: speaker, treasurer, President of the International Committee of EDA and now President of the Association.

In fact, the originally family nature of the demolition companies in Europe has made possible that we could share many years of work, coinciding with up to a couple of generations of managers, even in the EDA Boards of Directors. In those last years in EDA we have worked intensely to emphasise our presence and activity in Europe with the celebration of different activities every year to gather the industry to face the new challenges. Since its beginning, EDA had held at least one conference or convention per year that has become a meeting point for all professionals in the sector in Europe. Without forgetting our cordial relations with our colleagues in the United States. We are also in permanent contact with

the authorities of the European Union, in order to help each other with everything related to the regulations that affect our industry.

It is inevitable, for me, to highlight the Annual Convention in Vienna held this year, not only because its commemorated these 40 years of journey, but also because since that day I have the great responsibility of being the president of EDA. I am pretty sure that with the continuity in our work and the very effective activity of our Secretary, we will continue forward for the benefit of our industry.

About EDA

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

info@europeandemolition.org
www.europeandemolition.org



Francisco Cobo, President of EDA, European Demolition Association

EDA
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The Hatz management trio (from left to right): Wilfried Riemann, Bernd Krüper, and chief financial officer Thomas Lehner.

Hatz expands management team

Hatz has announced that it is expanding its management team with Wilfried Riemann joining Hatz from Deutz AG.

During his time at Deutz, Wilfried spent seven years as senior vice president of global operations for its compact engines division, with responsibility for logistics, production, supply chain and quality worldwide. In his most recent position as senior vice president of engines, Wilfried was also responsible for the development of engine related application segments.

On 1 August 2018, Wilfried was appointed as the chief operations officer for Hatz, assuming responsibility for all areas relating to the production of industrial diesel engines, drive

components (crankshafts, connecting rods) and special systems (power and energy supply, pumps). In addition, he is also responsible for the production and pre-assembly plant in the Czech Republic, as well as New Diesel Italy. The latter is a Hatz company specialising in the production of mechanical injection components.

Wilfried's key responsibilities in the operational area will include expanding development partnerships, ensuring competitive advantage for customers using Hatz engines, developing cooperation with leading technology partners and quality management. Additionally he will be responsible for the optimisation of production processes and industrial digitisation.



Toni Kiesel, president KTEG, and Hideshi Fukumoto, vice president and executive officer of Hitachi Construction Machinery.

Hitachi and KTEG form new electric construction machinery company

Hitachi Construction Machinery Co., Ltd has formed an agreement with KTEG Kiesel Technologie Entwicklung GmbH, to establish a new company for the development of electric construction machinery, and special application products aimed at the European market.

Hitachi Construction Machinery has long developed electric construction machinery to help reduce negative environmental impact and life cycle costs. The European market now has some of the strictest regulations in the world regarding global warming prevention and low carbon footprints, making electric power becoming increasingly important both for automobiles and construction machinery.

KTEG itself has a wealth of know-how in providing electric construction machinery for the European market.

Behind the agreement is the work KTEG has done developing large demolition specification equipment, and other special application products based on Hitachi Construction Machinery hydraulic excavators.

This expertise has been developed to cater for the specific needs of customers in the European market where it is common for distributors and remodelling companies to develop, and sell, special application products for specifications that cannot be handled by standard models.



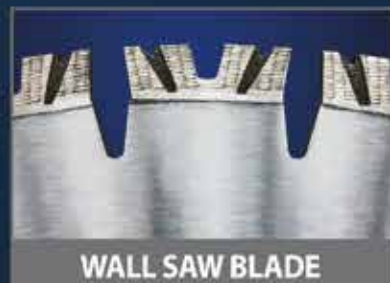
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Allu appoints new sales manager for France

Continuing its expansion, Allu is pleased to announce that Olivier Jeanneaux has been appointed as its sales manager for its French subsidiary. Olivier's new role for Allu France - which is headed by Vincent Duclos - will be to help continue Allu's market expansion throughout the country.

The last two years have seen Finnish based Transformer and Processor manufacturer Allu grow. This has enabled the company behind the attachment concept to further assist companies throughout the world. In order to continue its expansion, and to help grow its French business, Allu is pleased to announce the appointment of Olivier Jeanneaux as its new French sales manager.

French native Olivier is a well-known name to the crushing, screening and material processing industries throughout France. Olivier has worked for the past 30 years in the industry, being previously employed in a variety of senior roles by Kleeman, Metso and latterly, Sandvik Mining and Rock Technology.

Blount International acquires Merit Engineering and Equipment Company

Blount International, Inc. has acquired Merit Engineering and Equipment Company. The Merit brand of concrete cutting products and their manufacturing facility will be integrated into Blount's Concrete Cutting and Finishing (CCF) business unit. CCF manages the ICS brand of concrete cutting equipment and is the exclusive distributor of Pentrunder wall saws and wire saws in the Americas.



Keestrack shows its commitment at bauma Conexpo India 2018

Keestrack will reinforce its strong commitment to the Indian and South Asian aggregate and recycling industry at bauma Conexpo India 2018, which will be held in Gurgaon from 11 to 14 December. Represented by Etrack Crushers Ltd., the company's Indian subsidiary, Keestrack will focus on its advanced electric drive concepts, which have been designed to provide operational savings and advantages for contractors as well as users of larger multi-stage mobile plant layouts.

Headquartered in Gurgaon, next to the Indian capital New Delhi, Etrack Crushers Ltd. was established in November 2017 as part of

the Keestrack Group, in order to promote and supply the manufacturer's ranges of tracked crushers, screeners and related equipment. Supported by Keestrack's teams of application engineers and after sales resources, locally based personnel work on nationwide projects in the dynamic Indian mining, minerals, aggregates and recycling industries.

In only a few months the Etrack team, led by managing director Swapan Das and general sales manager Topor Basu, have increased brand awareness, providing the foundations for Keestrack's next steps in India which will include the establishment of localised assembly and manufacturing.



Uracac announces acquisition of Dynajet

On 24 September, Uraca GmbH & Co. KG purchased Nürtingen based Dynajet GmbH. Together the firms now offer a complete product line of mobile high pressure cleaning systems ranging from 150bar up to high end ultra-high pressure systems. "We are now in a better position to achieve long term goals in the high pressure cleaning market," says Gunnar Stoeck, Uraca's chief executive.

Dynajet already installs Uraca quality high pressure plunger pumps in its high pressure cleaning units, and will remain an independent brand with its employees continuing to develop and manufacture at the company's headquarters in Nürtingen. "Via Uraca, Dynajet gains an enormous development and innovation potential," says Andreas Fellman, manager Dynajet.

Dynajet was founded in 2001, designs and develops high pressure tools and systems for many industries and applications, ranging from gum removal to cleaning heavy

machinery to concrete removal. The pressure range of applications goes from 150 to 3,000bar. Dynajet high pressure tools and systems are used in a wide variety of ways in many industries, including construction, surface removal, cleaning contractors, ports as well as agriculture and forestry.

Uracac is a tradition rich commercial enterprise, founded in the town of Bad Urach in 1893. Today, the privately held mid-size company employs about 330, of which 21 are apprentices. Annual sales are approximately €70 million, with more than 70% coming from exports, with Uraca pumps enjoying a high degree of specialism in the petrochemical and other heavy industries. The primary focus of Uraca is the design and construction of high pressure plunger pumps and pump systems for pressures up to 3,000bar, and motor ratings up to 2600kW, as well as complex high pressure cleaning systems.

Rubble Master expands in China

The global leader in mobile Compact Crushing is continuing its expansion of the past years and increasing investments in the growing market of China. This is why there has been a recent addition to the RM Family – the Chinese sales subsidiary Tianjin Rubble Master Technology CO., Ltd. The local team of five will serve the Chinese RM customers on site together with the 10 established local sales partners. Rubble Master will be represented at this year's Bauma China in Shanghai for the first time with the subsidiary in China.

The team has already posted its first successes within a short time. Some mobile RM Compact Crushers have already been sold and put into operation. Customers were enthusiastic from the start. Capacities exceed expectations and the rapid start-up enables efficient and flexible work. Additionally, Rubble Master offers the quietest mobile crusher fleet with extremely low exhaust emissions which fulfill the high legal requirements without any difficulty at all. The extreme long life span of the Rubble Master machines has been also well approved in this market. Meanwhile, Hebei Cangzhou Municipality, the first customer of Rubble Master in China, is the owner of an RM80 and an RM100, which were bought in 2005 and 2006.

The RM 100GO! with the new generation of mesh deck screens plus the hydraulic swiveling refeeding belts will be on show. With the RM 100GO! Rubble Master has a high-performance Compact Crusher in its product portfolio which stands out above all through the quiet operation and in a wide variety of application fields. The fast and uncomplicated start-up enables quick and efficient on-site recycling. With a capacity of up to 250 t/h – depending on input material – the RM 100GO! produces a high-quality end product. All mineral materials such as construction & demolition waste, concrete, asphalt, glass, coal, natural stone or steel-reinforced concrete with an edge length of max. 750 mm can be processed to make high-quality building materials. The RM 100GO! weighs only 29 t and has an impressively high throughput on a par with that of larger crushers.

Besides the user-friendly single-operator handling of the durable RM crusher and attractive price/performance ratio, the professional, local support is a decisive factor for many customers. This is ensured by the proven RM Lifetime Support and local service through the company's own established dealers.

The Rubble Master dealers have an extensive stock of original RM spare and wear parts.





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DIAMOND AWARD 2019

The Diamond Award is an internationally recognised competition for concrete sawing and drilling companies, providing a chance for such companies to demonstrate their professionalism. The 2019 award ceremony will be held on Thursday 11 April, 2019, during the annual

IACDS event, which itself will be held during the bauma Munich trade fair (to be held from 8 to 14 April 2019 in Germany). The construction press will be invited to attend the event, with the top three entrants being announced and presented with a recognition plate.

Merit joins Blount International's ICS family

Blount International has acquired and begun integrating Merit into its Concrete Cutting and Finishing (CCF) Group. CCF manages the ICS brand of concrete cutting

equipment, and is the exclusive distributor of Pentrunder wall saws and wire saws in the Americas. For further information please visit: meritsaw.com/news.

Wacker Neuson agrees OEM cooperation with John Deere

Wacker Neuson has signed an agreement with John Deere Construction & Forestry, a subsidiary of Deere & Company, USA, for the sale of its mini and compact excavators. This will initially cover China, Australia and selected South East Asian countries, with the aim of both companies being long term cooperation in key growth markets. The cooperation covers mini and

compact excavators in the 1.7t to 7.5t range, which were specially developed by Wacker Neuson to meet the requirements of the Asian markets. Wacker Neuson will manufacture the equipment predominantly in Pinghu, China, with the equipment being marketed under the Deere brand name via the existing and developing John Deere dealer network.



Christoph-Loos.

Hilti continues double-digit growth rate

The Hilti Group achieved sales growth of 14.7 percent over the first eight months of 2018. When adjusted for acquisition effects growth amounted to 12.7 percent. The Group's operating result rose 7.6 percent over the same period.

Through the end of August Hilti Group sales for 2018 were CHF 3751 million (+14.7%), significantly greater than in the previous year. Two percentage points of this total are attributable to Hilti's purchase of the Oplaend System Group in September 2017. The growth rate also registered double digits in terms of local currencies (+11.9%). The North America and Europe regions once again advanced strongly, posting 12.2 and 12.4 percent growth in local currencies, respectively. The upward trend in Latin America (+7.4%) slowed due to currency devaluations and political tensions in several countries. While uncertainties also increased in both Turkey and Russia, the Eastern Europe / Middle East / Africa region nonetheless continued to see sales rise (+14%). The Hilti Group also

sustained a positive trend in the Asia/Pacific region (9.1%).

As a result, expenditures for research and development rose to CHF 225 million (+17.6%) while the number of employees grew to 28,566 (+9.6%). The more robust spending level and the stronger euro translated into figures for return on sales, at 12.1 percent (-0.8%), and return on capital employed, at 22.2 percent (-0.6%), that were slightly lower than the corresponding figures for 2017. The Hilti Group, however, posted increases in the operating result, at CHF 456 million (+7.6%) and net income, at CHF 329 million (+4.5%).

If world political uncertainties and currency volatility do not significantly worsen, the Hilti Group expects double-digit sales growth over the entire year, albeit slightly below the figures for the first eight months of the year due to acquisition effects. Despite ongoing investment Hilti expects the operating result for 2018 as a whole to be similar to the current growth level.

Italian construction machinery performance on foreign markets

The second two-month period of 2018 again confirmed the favourable moment for the Italian construction machinery industry on international markets. From January to April 2018, exports of vehicles and site & construction equipment were worth 973.3 million euros, an increase of 13.5% over the same period in the previous year. This result was announced by the Samoter Observatory, the Veronafi event dedicated to construction machinery scheduled 21-25 March 2020.

Analysis of the second two-month period - implemented in collaboration with research company Prometeia and Unacea, the national association of construction machinery and equipment manufacturers - indicates generalized development for Italian exports in all the various reference categories: earth moving (+19%), road-building (+17.6%), concrete (+7.1%) and aggregates (+3.8%), drilling systems (+10.8%) and tower cranes (+14.5%).


Outlet markets highlight double-edged trends. Markets such as Western Europe (+11.4%), Eastern Europe and Turkey (+18.7%), Russia (+39.4%), North

America (+37.8%), Middle East (+18.9%), China (+39.6%), India (+22.7%) and Oceania (+10.5%) performed well. On the other hand, "emerging" geographical areas, such as Central and Southern America (-31.3%) and North Africa (-16.9%), posted a downturn.


In the second two-month period of the year, the recovery on the domestic market was also consolidated in the construction machinery sector, thanks to imports posting turnover of 300 million, with an increase of 22.2%.

This is a general expansion cycle that should continue to achieve two-figure growth rates through to 2020, according to Samoter Observatory forecasts. Going into more detail, the increase in domestic demand in Italy focuses on earth moving machinery (+9.3%), preparation of concrete (+87.2%) and aggregates (+24.8%), drilling systems (+422%) and tower cranes (+49.5%). The only negative note comes from the road-building sector, with a setback for imported machinery of 6%.


Imports grew from traditional reference areas including supplier countries such as Western Europe (+11.4%), North America (+66.1%) and Asia (+32.8%).



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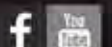
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/DrSchulzeGmbH

Idrobase catalogue focuses on innovation and business opportunities

The Idrobase Group has recently distributed its 450 page long catalogue of solutions. This focuses on innovations for the cleaning and misting market, in particular the company's new high pressure washers, pumps, spray guns and foam lances, accessories and spare parts. For the misting market, the catalogue presents industrial plants and fogging systems (industrial and professional fog modules etc.), with the catalogue being distributed in 96 countries. "The new 'Catalogue of Solutions' is an act of trust in the future," said Bruno Ferrarese, president Idrobase Group. "It was created focusing on product innovations to respond in the best way to the needs of our customers by providing concrete business opportunities."



Pipeline Plant Hire (PPH) is an Australian specialist pipeline plant hire and equipment supplier that matches equipment for pipeline project requirements. PPH has adopted Allu transformers fitted with new TS® screening blades as an integral part of the company's offering. "We focus on providing top quality, leading brand, modern low hour machines, and flexible dry hire solutions, to major contractors in gas, water, rail, civil and mining. When we heard about the benefits of the Allu Transformer screening buckets, we realised that this was a solution that would aid our customers," says Nick Maher from PPH.

PPH has found that through using an Allu DH3-17 fitted with 08/16 TS® blades on a Hitachi ZX330 or ZX350 excavator, the buckets' 1.3m³ / 1.5m³ capacity enables 80% efficiency a bucket per/min on average

(1.04m³ x 60 totalling 62.4 m³ per hour) screening, excavating and backfilling pipe beds. Additionally, PPH has found that the use of the fine screening Allu TS® drum construction, when fitted with standard blades, enables material to be screened onsite, and then backfilled directly into a trench.

At the core of the TS® drum construction is the configuration of the screening blades that spin between the screening combs. The end product size is defined by the space between the combs, and different fragment sizes can be achieved simply by repositioning the combs. As the screening combs carry most of the material weight, the drums and bearings experience less impact and load, with the design of the assembly ensuring the machine works well on wet and dry materials without clogging.

Julie White appointed to CITB England Council

A Midlands based female construction leader has been chosen to help shape the future of the industry. Julie White, the managing director of diamond drilling and concrete sawing specialists D-Drill, has been selected to sit on the Construction Industry Training Board (CITB) England Council. The council will help the board form plans for the future of training within the sector, and make its work more representative of the whole industry.

Julie White has been managing director of D-Drill since a management buyout a decade ago, and has long been an advocate of training and apprenticeships throughout the construction industry. She is also a member of the board of directors of BuildUK, and was a founding member of the Drilling & Sawing Association.

The CITB council will have its first meetings this autumn, and will be asked to assist the board to accurately prioritise support for key issues affecting the construction industry within the affiliated nations. They will also shape and influence the CITB's business plan to address industry opportunities, pressures and priorities, as well as making timely recommendations to the board concerning skills issues.

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Stanley Black & Decker buys Genesis, Paladin

New York based private equity firm KPS Capital Partners LP has signed a deal to sell the attachments division of International Equipment Solutions LLC (IES) to Stanley Black & Decker for €608M (approx.). New Britain, Connecticut based Stanley already owns and markets LaBounty brand attachments, with the IES division acquired by Stanley including the Genesis, Paladin and Pengo business units, along with all the brands and operations within those units, including Jewell and Sweepster. KPS will retain ownership of IES' heavy equipment cabs and cab enclosures division.

The IES brands manufacture attachment tools for off highway applications, including demolition and scrap recycling. During KPS' ownership, IES Attachments acquired and integrated two additional companies, CWS Industries and Kodiak, and launched Paladin do Brasil in 2013. KPS, in partnership with management, successfully transformed IES Attachments from a non-core division of a large corporation into a thriving, highly profitable and growing standalone company. According to Stanley Black & Decker, approximately 60% of the IES attachments unit's €353M (approx.) annual revenue is related to aftermarket applications. There are however rumours that the deal is now being investigated if it proves to violate the Competition Act, and that if the acquisition were to proceed, it would provide Stanley Black & Decker with too dominant a position within the market.

New internal pipe saw innovation developed in Australia

Paddy Brosnan, from Australian company Extreme Cut Services, has developed an internal pipe saw. Brosnan says that the machine is capable of cutting square cuts and mitre cuts up to 45°. Brosnan is now looking for a manufacturer to bring the innovation to the next level and start producing it, and has considered such companies as Husqvarna, Tyrolit or Hilti.



EDA CELEBRATES 40 YEARS

The European Demolition Association was founded in 1978, and consequently is celebrating its 40th anniversary. PDi Magazine would like to congratulate the association, and wish the EDA all the best in the coming 40 years.

As the world has changed, the demolition industry has also evolved significantly. The definition of the word 'demolition' may have remained the same in dictionaries throughout the years, but the ways of working have changed completely. The EDA itself is proof of that, and has made a significant positive contribution to the industry over the years. The technical part of demolition work has evolved to heights no one could imagine 30 years ago, but also the paperwork and the administration of the jobsite have changed. Waste is now a major issue, and will be even more in the

future, as most European countries implement the Waste Framework Directive 2008/98/EC in their national regulations.

EDA, as the platform that brings together the European demolition industry, has progressed since it was founded in 1978. The Board of EDA represents this progress, comprising of members from all over Europe, some of them belonging to a second or even third generation of demolition companies. The EDA has done excellent work in the past supporting countries that did not have a national association, plus providing interesting contents at international meetings, where the expertise from different demolition companies could be shown. The EDA is set on carrying on its important job in to the future, and fully deserves our congratulations.

www.europeandemolition.org

Kevin Thieneman, new vice president

Chinese construction equipment manufacturer LiuGong Machinery is pleased to announce a strategic adjustment to its senior leadership team with the promotion of Mr. Kevin Thieneman to vice president. Mr. Thieneman will be responsible for global strategy and business development, global aftersales business and support the acceleration of market segment solutions. He will also continue in his role as executive chairman of LiuGong North America, having served in this role since he joined LiuGong in June 2017.

Epiroc invests in autonomous mining solutions

Epiroc has acquired 34% of ASI Mining, LLC, a U.S. based company that provides technology solutions for the autonomous operation of mining vehicles. ASI Mining is based in Mendon, Utah, United States, and is a subsidiary of Autonomous Solutions Inc. Its products include on board hardware and software that convert vehicles to autonomous operation, as well as system level software platforms for command and control of autonomous fleets across various mining applications. These solutions integrate with a variety of mobile mining equipment, regardless of make or model, being used by mining customers globally. The business is estimated to have revenues in 2018 of more than €5.3M (approx.).

"The investment in ASI Mining is part of our strategy to expand in automation and interoperability in the mining segment," said Helena Hedblom, Epiroc's senior executive vice president mining and infrastructure. "This is the future in mining, and the great team at ASI Mining has developed state of the art solutions that will enhance Epiroc's delivery of productivity, and safety improvements to customers worldwide." The purchase price is not material relative to Epiroc's market capitalisation, and is not disclosed. ASI Mining will operate as a separate company partly owned by U.S. based Epiroc Drilling Solutions LLC. Revenues and operating profit will not be consolidated.

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Mantovanibenne turns 55

Mantovanibenne is proud to have played a leading role for 55 years in the development of excavator attachments. What makes this achievement even more notable is the fact that the company's headquarters and production line were virtually destroyed by an earthquake some years back. This fact, and the success the company has enjoyed, made the company's celebrations of its 55th anniversary all the more special.

The 55th anniversary celebration took place on 29 September in Mirandola, Italy, at Mantovanibenne's headquarters. Around 400 specially invited guests from all over the world joined the company, with the main theme of the celebration being 'Emilian Excellences'; this being chosen with the intent of celebrating not just Mantovanibenne, but all the companies and people from the Italian region of Emilia-Romagna. The region is noted for its passion for quality, with people from the region renowned for infusing their work with style and content, whether in the fields of food, fashion, mechanical engineering, supercars or excavator attachments.

Before the party began, the Mantovani family (the owners of Mantovanibenne) expressed their gratitude towards all their partners and customers, and particularly applauded the contribution of their employees for their loyalty and skill, which have contributed to Mantovanibenne's success. Alberto, Roberta and Paolo Mantovani recalled some important moments from the past, before coming back to the present to outline reasons for the company's current success.

Following on from these welcoming addresses, Lorenzo and Jacopo Mantovani, the new generation of the family running the business, outlined the group's future strategy for growth. This included presenting new and recent innovations. During the 55th anniversary celebrations, management restated the intention to look forward and continue with the development and marketing of tomorrow's attachments. With the formalities finished, the party well and truly began with an 'Italian tasting tour' of the region's produce, making the festivities a particularly delicious day for all involved.

www.mantovanibenne.it



New two in one cutter / scarifier from Dr Schulze

Dr Schulze has extended its equipment range with the new DBF-380 dual use floor-milling machine. This can be used with a 300mm milling drum equipped with carbide tools or, after a small conversion taking no longer than ten minutes, be adapted to accept 280mm diamond blades. This latter feature enables fast and smooth material removal. Depending on the floor material encountered, the diamond blades fitted to the DBF-380 are able to cut to a depth of approximately 34mm, with a maximum cutting width of 380mm.

Powering the new DBF-380 is a 15kW electric engine, which has an innovative electro hydraulic feed drive with continuous speed adjustment. It is also equipped with automatic delta star switch with phase control, removable weight, multifunctional cutting guide and LED lights for improved operation. Furthermore, and due to its integrated ampere-meter, the machine is always used at its optimum power range without danger of overloading the engine or the diamond blades. Another special feature of the DBF-380 is its water spray system, which prevents dust emissions. The further utilisation of the vacuum system found on Dr Schulze's DSBM-250 or DSBM-400 shot blasting machines, adds to the dust free operation of the DBF-380.

The DBF-380 is ideally suited to jobs where concrete layers of more than 5mm thickness need to be removed from large areas. The most efficient way of removing material such as this can be achieved by the cutting of the concrete surface with diamond blades placed on the shaft with a distance of 6-10mm, followed by scarifying with a carbide drum. This will ensure the removal of between 15-30mm of concrete in one sequence, which can then be repeated several times to achieve the removal of virtually any thickness of material.

The DBF-380 is also suited for other applications such as slot cutting with narrow assembled blades, as well as the production of shaped slots (T-shape, U-shape and so forth), which can be done in one working sequence by fitting the cutting shaft with diamond blades of different diameters. Such shaped profiles are required for the laying of cables, installation of lighting systems and integration of blind guidance lines in pedestrian areas and platforms.

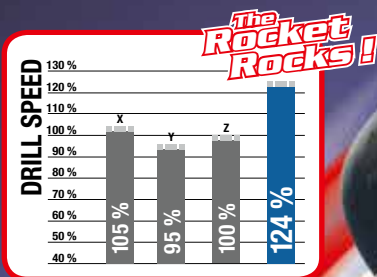


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HCME launched the first Hitachi ICT hydraulic excavator with machine control in Europe, the ZX210X-6.

Hitachi launch new excavator to mark redesigned factory

demonstration area

In September, Hitachi Construction Machinery Europe (HCME) inaugurated its redesigned demonstration area at its headquarters in Amsterdam, the Netherlands. This has been redesigned in order to showcase a wider variety of machines in a more attractive and technologically advanced environment.

"We want to make the area more attractive to visitors, and to update it with new technology, so it would be ready for the launch of the ZX210X-6 ICT hydraulic excavator with machine control, and to better demonstrate Hitachi's information and communication technology construction solutions (ICT)," explained project manager Frank van Neste of the redesign. "We wish to make this place more attractive for visitors and, at the same time, updated for the technological perspective of the industry."

In order to demonstrate its new demonstration concept, HCME took the opportunity to demonstrate the new hydraulic ZX210X-6 ICT excavator with machine control. This is according to Makoto Yamazawa, president of HCME, the first ICT excavator in Europe. Additionally, Makoto Yamazawa outlined the company's vision of tomorrow's job site: "Already in a not distant future, there are many issues we have to comply with. But with those issues there are also many solutions where ICT plays an important role to improve efficiency, environmental restrictions, emission regulations and safety. With these circumstances, the mission of Hitachi is very clear: we have to comply with all these issues. And digitalisation is the keyword to resolve many of the issues and improve the efficiency and make contractor's businesses sustainable."

Hitachi hydraulic excavator with machine control

During the inauguration of the redesigned demonstration area, the company not only demonstrated

the ZX210X-6, but also formally launched it to the European market. This modern excavator is believed to have a huge impact on construction and civil engineering projects by increasing efficiency (estimated to be in the region of 30-50%), enhance safety and make life easier for operators. It incorporates the latest Hitachi Construction Machinery technological advances, making the ZX210X-6 one of the 'most precise' models on the market today, with its semi-automatic operation ensuring consistently high levels of accuracy.

The ZX210X-6's accurate performance also contributes to enhanced safety on the job site, as it has been designed for ease of operation, with user friendly features to support the operator. These include sensors mounted on the body, boom, arm and bucket of the ZX210X-6, which are said to be among the fastest available. These enable accurate measurement of the

excavator's incline, and the angle of the front of the machine. The sensors work in harmony with the unique hydraulic control unit, and when combined with the hydraulics of Hitachi excavators, this drives the performance of the ZX210X-6.

The accurate positioning of the ZX210X-6 is determined with its 3D system, which can be downloaded by the machine via the internet or a USB device, enabling its position and altitude to be ascertained by satellite positioning and sensors. Alternatively, a 2D system uses coordinates derived from design drawings, and data entered manually by the operator into the monitor. This uses the machine as a reference point, taking information from the sensors. However, some staking is required for measuring on site when using the 2D system, whereas this is significantly reduced using 3D.

The easy to read, user friendly 244mm touchscreen monitor in the cab has been developed in cooperation with one of the global leaders of machine guidance devices, Trimble. It is factory fitted by Hitachi Construction Machinery and operates like a smartphone. This enables the operator to rotate the view of the machine 360°, and also zoom in and out of the view to monitor progress in more detail. The view can be customised according to the operator's preference, and it has a split screen option to show 2 or 3 views simultaneously.



The redesigned HCME demonstration site.



Cutting Edge Hydrodemolition with AQUA CUTTER robots



Hydrodemolition is a technique that uses a high-pressure water jet to remove areas of deteriorated and damaged concrete from structures and buildings, such as bridges, pillars, roads, parking garages, power plants and other engineered constructions. It leaves a sound and good surface, ready for reinstatement with new material. The precision control of the high-pressure water jets also ensures that the rebars remain intact after the operation.

As a method and in terms of repair, versatility and avoiding cracks, Hydrodemolition is outstanding!



HANDLERS THAT HANDLE

WITH EASE

Caterpillar, Volvo, Komatsu and Bobcat all share one thing: new products aimed at making waste handling easier. From material handlers to compact wheel loaders, PDi takes a look at the latest in efficient demolition debris handling.

Cat has launched new wheel material handlers, MH3022, MH3024 and MH3026, which aim to deliver application efficiency with reduced ownership costs. The MH3022 is an agile solution for handling jobs with space constraints, providing the necessary reach for tasks such as indoor sorting and waste handling. They also provide application flexibility with a choice of two MH booms, three straight sticks with linkage and two drop-nose sticks. The compact undercarriage is wide enough for stability, while the centered position of the swing bearing allows equal capabilities when working over the front and rear.

The MH3024 is ideal if space constraints are not an issue, for such tasks as waste handling, recycling, and bulk material handling. It features optimum reach with its long MH front linkage, and a choice of undercarriage configurations to meet customer application needs. If the application is not stability sensitive, then the new 2.75m undercarriage might be a perfect fit for

the MH3024 working in typical conditions, as well as good fit for the MH3026 handling low density materials. If work requires greater lifting capacities and a larger working envelope, then the MH3026 is the optimum machine, as it is equipped with a long MH boom and provides a choice of three drop-nose sticks. These range in length from 4.9m to 5.9m, three straight sticks, and a choice of three undercarriage sizes.

In addition to the wheel material handlers, Cat has also launched the GSV series grapples, GSV520 and GSV520 GC, designed for strength, reliability and durability. They incorporate new easy loading tines, and vertical cylinders that create a profile to facilitate greater material swing and more efficient bulk material handling. The new grapples, purpose built for Cat MH3022, MH3024, and MH3026 wheel material handlers, are available in a five tine-shell configuration, both closed and semi-closed, and feature a new rotation design. Both new grapples are suited for dealing with a



wide range of materials, including shredded scrap, long structural beams, car bodies, and solid waste at recycling and transfer stations.

Volvo's new material handler

Volvo CE launched its EW240E material handler at Intermat 2018, designed specifically for use in the waste and recycling industries. It features a dedicated upper structure, and reinforced undercarriage to withstand the forces in scrap sorting applications, making it a powerful and reliable partner in challenging work conditions. The new material handler weighs in at 26t and is powered by a Stage IV/Tier 4 Final compliant Volvo engine, which provides 129kW of power, and achieves a maximum torque of 850Nm at just 1,350 rpm. With its 6.5m straight boom and 5m gooseneck arm, the machine has a forward reach of more than 11m. The EW240E is purpose built for material handling applications, while the latest machine is based on the established design of its forerunners, it includes a host of new features, which have undergone rigorous testing in field conditions.

Komatsu Europe launches WA100M-8 compact wheel loader

The new Komatsu WA100M-8 compact wheel loader provides effective and low cost operations through the use of a powerful EU Stage IV engine, and Komatsu's 'Selective Catalytic Reduction' (SCR) system, a new ergonomic design, a high level of standard specifications and an array of new options. The loader has been designed to work on construction sites, in the recycling industry, or in agricultural applications, and comes complete with a hydraulic quick coupler. This facilitates the use of 'Easy Fork' kinematic and various other attachments, making



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the Komatsu WA100M-8 a reliable and versatile tool.

"The WA100M-8 is built on the strong base of the WA100M-7," says Sebastian Zienau, product manager at Komatsu Europe. "With its many new features and options, it opens up a whole new range of versatility. We're really looking forward to offering such a flexible machine to our customers." The WA100M-8 has an operating weight of 7,200 kg, whilst its EU Stage IV Komatsu SAA4D94LE-3 engine delivers more power, with 70kW net. Optimised for tough construction applications, it delivers high torque even at low rpms, whilst its fully automatic hydrostatic transmission sends power to all four wheels.

With high rim-pull, superior breakout power, high lifting and dumping height, and enough reserves for even the most difficult ground conditions, the



WA100M-8 also features low fuel consumption. The operator can rely on 'Easy Fork' kinematic to transport loads with Komatsu pallet forks parallel to the ground without re-adjusting the fork tines.

Bobcat targets heavy lift handling with new compact telehandler

Bobcat has provided a new solution for heavy lift handling applications found in general industry, manufacturing, building materials, warehousing, quarrying and mining with the launch of the TL43.80HF telehandler. The company now offers a range of fifteen different rigid frame telehandler models, covering maximum lifting capacities between 2.6t and 4.3t, and maximum lifting heights from 6m to 18m.

"At Bobcat, for over 60 years, we have been con-

stantly innovating the market, always developing new machines for customers' needs. The new TL43.80HF is no exception to this legacy as it completes our range of telehandlers, and ensures customers can benefit from unmatched loading productivity and lift capacity. Bobcat machines are made for tough jobs, whilst still providing all the agility and versatility any application would require," said Olivier Traccucci, Bobcat telehandler senior product manager.

Bobcat states that unlike any other manufacturers to its knowledge, all Bobcat telehandlers are covered by a three year/3000h warranty as standard, with the option of extending the warranty to five years/5000h. All Bobcat telehandlers are designed in Europe for European customers, and produced at the company's plant in Pontchâteau, France.

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Aquajet Ergo replaces all forms of hand lance work on floors, walls or ceilings. Furthermore, it's perfect for hydrodemolition operations in confined areas and wherever a robot or other kinds of larger fixed hydrodemolition equipment won't fit.

AQUAJET LAUNCHES NEW PRODUCTS TO HELP CELEBRATE

30th anniversary

In 2018, Aquajet Systems AB celebrated its 30th anniversary. This landmark provided an opportunity for the company to unveil several new ground breaking products for safe and sustainable hydrodemolition.

One of the new products launched by Aquajet to help celebrate its 30th anniversary is the Ergo, which has been developed for small scale operations and industrial cleaning jobs. It replaces all forms of hand lance work on floors, walls or ceilings. Furthermore, it's perfect for hydrodemolition operations in confined areas and wherever a robot or other kinds of larger fixed hydrodemolition equipment won't fit. The system is designed to be a true problem solver and business enabler, and to make the operator's job and working conditions safer than ever before.

Aquajet Ergo has been designed to place operator safety and business first. At the heart of the Ergo is the advanced control unit, the Ergo 'Controller', which works together with its arms and legs, or either a spring loaded high friction roller system called the Ergo 'Climber', or a flexible rail system called Ergo 'Spine'. Additionally, it is equipped with an all new Ergo 'Power Head', which utilises Aquajet's unique 45o lance angle and adjustable oscillation.

The flexible Ergo 'Spine' is easily configured to solve virtually any problem by just adding brackets and supports. Ergo 'Climber' is a frame system that can be quickly built up using standard scaffolding pipes. It is packed with effective water nozzles that remove damaged concrete in very difficult and confined areas. The complete system measures 1.5m x1.5m and has a total weight of 85kg, making it easy to manage and enabling

all parts can be carried by a single person.

Thanks to its smart design and the use of low weight materials, every component in the Ergo system can be handled, carried and transported by one person, with everything fitting in one small van or on a standard pallet. The dry weight of the control unit, Ergo 'Controller', is only 98kg, and none of the additional parts weigh more than 25kg. Aquajet Ergo can be delivered as a complete starter kit, with key system parts such as Ergo 'Controller', Ergo 'Climber' and Ergo 'Spine' being also sold separately.

As well as its new Ergo, Aquajet has also this year

launched its Super Lance System 3000, a new lance system with capacity up to 3000bar. This features a reduction of the lance diameter from 45mm to 36mm as well as improvements to the nozzle. The system is easy to mount, and equipped with standard couplings providing a more flexible system.

According to Aquajet, the new Ergo family will take hydrodemolition technology and industrial cleaning work several steps further. The new technology is considerably more accessible and efficient to work with, with Ergo enabling non specialised hydrodemolition contractors to work with the new technology.



Ergo 'Climber' is a spring loaded high friction roller system.



Ergo 'Climber' can be quickly built up using standard scaffolding pipes.

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Cat Side Discharge Buckets for controlled flow

Cat Side Discharge Buckets—designed for use with skid steer loaders, multi-terrain loaders, compact track loaders, and compact wheel loaders—collect and transport loose materials such as sawdust, sand, mulch, and

topsoil and then discharge these materials via a belt-type conveyor from adjustable openings (doors) on either side of the bucket. A rotating agitator works to keep material flowing to the conveyor.

Adjusting conveyor speed and door openings controls the volume of material discharged and the area covered. Features of the Cat Side Discharge Bucket suit this attachment for varied application, including agriculture, construction, landscaping, road maintenance, and material handling.

The rubber conveyor belt—featuring a heavy duty, raised chevron tread design and equipped with an adjustable tensioning device—is engineered for long-term durability and functions efficiently whether discharging material left or right. Two externally mounted, reversible, hydraulic motors power the conveyor directly, eliminating any intermediate drive mechanisms. Specially designed openings in the bucket floor allow any material remaining in the bucket to escape, preventing material build-up beneath the conveyor. Side Discharge Buckets designed for consistent use in sand, or other heavier materials, feature an internal baffle to reduce belt strain.

The agitator assembly, directly powered via a third, high-torque hydraulic motor, functions to reduce material bridging in the bucket to ensure consistent material flow to the conveyor. Agitator paddles are available in sand and sawdust configurations, the sand style featuring a straight design that exerts added force to push through dense material, and the sawdust type featuring an aggressive design that uses prongs to assist in breaking up material and reducing weight on the conveyor.



CITB SIMULATION BASED TRAINING TOOLS AT CM LABS EVENT

A July seminar event focused on the value of simulation based training. During the event, speakers from the Construction Industry Training Board (CITB) shared with industry professionals their own experience of the advanced training technology.

The July event, organised by CM Labs Simulations, the developer of Vortex® training simulators, was attended by representatives from crane operations and training, health and safety, fleet, and engineering managers representing contractors, heavy equipment rental firms, training schools, lift engineering firms, as well as municipalities from across the UK. CITB itself is a levy funded training and operator standards body for the UK construction industry, and has successfully integrated simulation based training into its existing processes. This has resulted in increased student practice time, reduced costs, and better reporting of skills development and qualification readiness.

In an effort to improve its processes and better serve its customers, CITB purchased six Vortex simulator units with training packs for excavators, crawler cranes, mobile cranes, and tower cranes, and four Signalperson training stations. Housed in a purpose built training building, and run by dedicated simulator technicians, the simulators have become a fully integrated component of the CITB training program.



ERKAT EXCAVATOR CUTTING units at tram line building site

The start of building work for the S21 tram line is slightly delayed, but now an excavator cutting unit from Erkat is being used to meet the special building and structural challenges posed by the building site. Erkat has been developing excavator cutting units for over 15 years, and is established worldwide in various application areas, with the extensive product range being able to deal with a multitude of tasks. This led directly to the construction company, BTB Group (founded in 1990), choosing the reliable and individually deployable cutter units for work on the S21 tram line in Berlin.

At the Berlin central station, the ER 1500 L and ER 2000 X cutter units are now in use. Their primary task is to cut through the old concrete making way for the further construction work. The cutter units create small pocket shaped structures in difficult to access ground, cutting ridges into the ground, and removing part of the material in the process. This creates space for a hydraulic hammer, and is the only way for the hammer to find the right point for breaking the concrete, making the process an ideal division of the work. The two Erkat cutter units were used at the construction site until the end of July.



TYROLIT 'CUTS UP' FOR

Erlenmatt's Haus für Kosmopolitisches in Basel

A new city district is currently under construction to revitalise the Erlenmatt East area in the north of the Swiss city of Basel. The former silo, which dates back to 1912, and was originally used for storing grain and cocoa beans, is being converted into a cultural and gastronomic attraction. It will form the centrepiece of the 'Haus für Kosmopolitisches' ('house for cosmopolitans'), being an open lounge, where accommodation, restaurants, studios and working spaces will be established.

The new socio cultural meeting point is expected to open its doors at the end of 2019. It is owned by the Habitat Foundation, operated by the 'Verein für Kosmopolitisches' ('association for cosmopolitans') and was designed by the Harry Gugger Studio in Basel.

The original freestanding silo forms part of an earlier reinforced concrete building which, as part of the urban development, is now being integrated into a linear development. The characteristic silo chambers are being retained. The team from the Swiss construction company ERNE AG has ensured that the large portholes, doors and other openings contribute to the brightness and transparency of the structure.

A total of 20 portholes, each with a diameter of 2,600mm, were cut out using Tyrolit CCE25 circular wire saws with WX-15 drive components. The varying thicknesses of the side walls, which were 150mm thick in the upper area, and thicker on one side towards the ground, required a special supporting structure, which was specially fabricated by ERNE. The cutting work was particularly challenging in strong winds, as the drift of the concrete dust cloud onto the adjacent motorway had to be prevented.

To perform the cutting work for doors on the partition walls, the new Tyrolit WSE1621, WSE1217 and WSE811 wall saws were used. Wall sections measuring 1,470 x 1,900mm and floor sections measuring 735 x 950mm were cut out from the 100 year old, 150mm thick concrete. Here, the team from ERNE had to work very carefully and cleanly, as the concrete and cutting areas remain permanently visible. Even the issue of dewatering via the neutralisation plane was well resolved by ERNE, with much of the cutting work was performed using the recently launched WSE1621.



EMI SOLVES *La Pedicara quarry dust problem*

The Cava La Pedicara quarry in Balvano is one of the largest in southern Italy, being located in the heart of the Lucanian Dolomites. Dolomite is the main rock extracted, which is used to manufacture glass. In the Cava La Pedicara quarry this raw material is first extracted, ground and sifted, and is then sold in different quality grades. This process does mean that quarry workers are however exposed daily to the large amounts of dust that are produced. Furthermore wind borne dust clouds also travel to the neighbouring town, with the dry Mediterranean climate making the situation even worse.

In order to rectify the situation, La Pedicara quarry manager Vincenzo Santagata contacted EmiControls in the summer of 2014, and explained that he wished to improve the working conditions of his workers, and protect the environment around Balvano (the nearby town). The biggest challenge to be faced was related to the enormous size of the area (approximately 3.5 hectares), as well as finding a solution that would not hinder the work of the quarry.

EmiControls technicians analysed the morphology on site, and every single point where dust was generated in the quarry. On the basis of this analysis, a customised solution was developed consisting of a combined system of mobile turbines, stationary spray heads and water mist curtains. This specifically consists of two stationary V12 turbines, mounted on 6m high towers, one mobile V7 turbine on an undercarriage, and other high pressure spray heads. The latter are permanently installed in the area, along with two high pressure pumps.

During their investigation of the dust problem, EmiControls discovered that the main source of dust is located near the quarry's conveyor belts. Thanks to the raised position of the installed V12 turbines (about 1.5m above the conveyor belts), the size of the surface area where the dust is bound to the water particles can be expanded. Additionally, the mobile V7 turbine is equipped with an undercarriage meaning that it can

be moved easily if necessary, whilst the stationary spray heads provide targeted atomisation, and have been installed where the dust can be trapped more effectively by the drops of water.

The results of the installation have proved to be highly satisfactory, with dust emissions having been reduced significantly. EmiControls turbines and spray heads atomise water into a very fine mist that effectively binds the dust particles. Thanks to the tiny size of the droplets, the water mist remains suspended in the air much longer and has more time to bind with the dust, further resulting in water consumption being reduced.

Due to the success of the installation, a new system is now being installed at La Pedicara quarry. This consists of a truck, fitted with a turbine, which will be used to criss-cross the quarry, distributing an additional water curtain.



The V12 turbine covers a surface area of approximately 7,850m².



VIDEO



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25 year anniversary for Epiroc SB Hydraulic Breakers

This year marks the 25th anniversary of the ground breaking SB or 'solid body' concept for hydraulic breakers, with the range being a popular part of Epiroc's broad portfolio of hydraulic attachments. The slim, lightweight solid body design offers a number of advantages when compared to conventional hydraulic breakers which, at the time, had already been around for some years. By providing durability and reliability, easy handling, low fuel consumption and other benefits, the SB Hydraulic Breakers still perform in a competitive market.

First introduced by Atlas Copco in 1993, the solid body concept utilises a patented internal component design that integrates the percussion mechanism and the guide system into a single piece. This eliminates the weakest components of conventional breakers, and gives SB breakers their outstanding durability. Compared to conventional hydraulic breakers of the same size, the solid body concept gives a slimmer, more compact design that allows better visibility and handling, particularly in confined spaces.

SB breakers are manufactured at Epiroc's factory in Kalmar, Sweden, being designed for carriers in weight classes up to 24t, and are available in nine models with weights ranging from 55kg to 1,060 kg. The range includes models to match any micro or mini excavator, backhoe, skid steer loader or demolition robot. Their durability makes them a popular choice for rental companies for rental to less experienced end users.



ALLU at NordBau and GaLaBau 2018

A range of ALLU solutions perfect for the requirements of the construction, demolition, recycling, landscaping, and associated industries, were exhibited and demonstrated at NordBau and GaLaBau 2018.

From the 5 - 9 September, 2018, the 63rd NordBau was held at the exhibition centre in Neumünster. The show is the largest construction trade show in Northern Europe, with an outside area of 69,000m² and over 20,000m² of hall space. From the 12 - 15 September, 2018, over 64,000 visitors came to the GaLaBau exhibition which was held at the exhibition centre in Nuremberg. From its 13 exhibition halls and outdoor areas, the exhibition showed a wide spectrum of products and services specifically for the design, construction and maintenance of urban, green and open spaces. At both shows, ALLU exhibited and demonstrated its ranges of Transformer and Processors, as well as launching new products uniquely developed for the German market.

Visitors and prospective customers came with particular interest in the live Transformer demonstrations during GaLaBau.

The ALLU Transformer Series was main focus of the ALLU offering at both NordBau and GaLaBau. This comprises of an excavator/ loader/ tractor mounted processing bucket which screens, pulverizes, aerates, blends, mixes, separates, even crushes, feeds and loads materials. Also featuring at NordBau was the ALLU Processor, which enables the improvement of bearing capacity of soft ground and structures. At both NordBau and GaLaBau, ALLU introduced to the German market a new solution aimed at maximising customers' investment - the ALLU-App. This mould breaking development is fully integrated with ALLU's portal providing information, contact and advice on everything that is relevant to the serial number of the attachment in the customer's possession.



Kinshofer P-Series orange peel grapples handle heavier loads

Kinshofer, the global manufacturer of high quality excavator and loader crane attachments, offers an extensive range of excavator orange peel grapples for scrap, demolition, loading and unloading applications. Unlike competitive grapples, the P-Series hydraulic system is fully enclosed and protected, reducing the risk of damage to hoses and other components. Additionally, the grapple's unique tine design enhances material penetration, increasing the amount contractors can safely secure in one cycle and saving time on the jobsite.

The P-Series orange peel grapples handle loads nearly 4m³ within one cycle, and are available with three, four or five tines. The grabs also come in four different tine profiles including fully closing, half closing,

pointed and wide style pointed, effectively providing an optimised solution for any material. The slim design of the tines also provides maximised penetration of scrap and demolition piles.

The attachment's hydraulic system is completely protected through its yoke system design. This prevents material from falling into the system and ripping or damaging components or hoses - a common problem in demolition and recycling applications. Kinshofer's hydraulic cylinders are fitted with replaceable piston rod protection that is hydraulically cushioned for added durability. Removable covers provide quick access to the hoses, oil distribution system and grease points for easy serviceability.



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The new Rockster wind sifter RVB1700 during the test run.

NEW ROCKSTER wind sifter RVB1700 blows contamination away

Austrian company Rockster Recycler GmbH has developed a wind sifter retrofit kit for its mobile crushers. This development is aimed at partially unavoidable contaminations in any crushed material which are simply 'blown away'. The centerpiece of the RVB1700 is a variably adjustable blower, which is connected by flexible hoses to the air nozzle, which is adjustable in in-



clination. Through the narrow slot of the air nozzle, the air emerges and blows diagonally from below through the crushed material, so that the unwanted lightweight materials (such as polystyrene, textiles, gypsum, foils, wood, etc.) is removed. The Rockster RVB1700 wind sifter is hydraulically operated and can be completely integrated into each Rockster crushing plant.

The 'wind sifter package' is offered as an option by Rockster on all new machines. For existing plants, Rockster Recycler offers a retrofit kit which can be installed by the Rockster service team at the headquarters located in Ennsdorf, or on the customer's site. If the customer has its own technical capabilities, then the retrofit may be undertaken 'in house'.



RDW and QRB distributes Allu in Australia

Australian specialist construction equipment supplier RDW (together with subsidiary Qld Rock Breakers, QRB) has recently become the authorised distributor of Allu Transformer and Processor bucket attachments in Australia. RDW focuses on earthmoving equipment solutions, and supplies extensive ranges of machinery, parts (new, reconditioned and used), attachments, repairs and servicing solutions. RDW is now targeting over 120 applications for the Allu Transformer. RDW undertook a 'proof of concept' trial, aimed at showing potential customers the improvement in process and/or processing result directly to the customer. RDW's subsidiary QRB initially started its Allu demonstration program with the pipeline laying and padding industries, then moved to the waste recycling and feed-lot industries over the space of six months.

Regional likeminded dealers have been appointed throughout Australia. These include: Total Rock Breaking Solutions (Western Australia), RAM Equipment (South Australia), Walkers Hammers (Victoria), DLM Machinery (Tasmania), Groundtec (New South Wales) and Qld Rock Breakers (Queensland).



LIEBHERR L 580 XPOWER wheel loader assists in greywacke extraction

Rugged American haul trucks designed for bulk material transportation are pairing up with high performance Liebherr equipment as part of a greywacke extraction process undertaken by German company, Günter Jung GmbH. Located in the Sauerland region in North Rhine-Westphalia, the quarrying company operates a very special fleet of machinery, which now includes the Liebherr L 580 XPower wheel loader as its latest addition.

The L 580 XPower is predominantly used in load and carry applications, feeding material into crushers and haul trucks as part of Günter Jung GmbH specialism in the extraction and processing of greywacke. The quarrying firm produces bulk material of various quality grades of quarried stone which are used as irregular paving slabs, decorative stones and rectangular stone blocks for use in a variety of construction and landscaping applications.

The L 580 XPower wheel loader plays a key role

in the extraction and processing of these products in the quarry. It picks up blast material at the quarry face, and transports it to the company's two crusher units. In this process, the machine travels a distance of about 100m with ease. With its power-split driveline, the approximately 28t wheel loader has no difficulty in covering this distance, which includes an incline of around 15m in length.

Since its commissioning in June 2017, the Liebherr L 580 XPower has proved to be ideally suited to the load and carry work at the quarry. Its rugged z-bar linkage can exert high breakout forces in the lower region of the lift arm, with this feature playing a vital role in picking up blast greywacke using the excavators 6m³ rock bucket efficiently. During material transportation, the power-split driveline ensures a smooth ride, and a high level of performance by automatically adapting to the current driving situation. As a result, the L 580 XPower contributes to boosting the quarry's productivity.



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Improving renovation return on investment

The primary reason for running a renovation project is usually to add value. Whether that's by rectifying a problem, updating an offering or optimising the space, renovation can improve both the function and aesthetics of a business. Connie Johnson, vice president of marketing at surface preparation company National Flooring Equipment, explains how technology can help improve a renovation project's return on investment.

The starting point for a renovation project is to establish what the end goal is for the organisation. In most cases, the project is not just to replace the floor, but actually to meet a business objective. The objective could be something as critical as to bring in more customers or improve a building's efficiency. For example, in a café or restaurant, it is important to install flooring that feels and looks good under a customer's feet, is easy to clean if a drink is spilt, and is slip-resistant for safety. In a casino, a busy carpet may encourage visitors to look up, resulting in an increase in spending thereby helping the business to increase its profits. A patterned carpet will also conceal any spills, making the carpet cheaper and easier to maintain.

A floor covering can even impact the energy efficiency of a business. In large warehouses or supermarkets, a reflective polished concrete floor can cut energy bills. For a project to have any real return on investment, it must be clear what problem the renovation is trying to solve, and what environment the business is trying to create. Once the goals and objectives of the project are defined, there are several ways that a business can maximise the return on investment of their floor. The first stage is during the renovation itself.

When renovating a business, it's critical that the work does not disrupt daily activities. Many companies remain open during renovation or refurbishments, which means business owners must be conscious of noise, dust and debris. The contractor can choose a

battery or electric powered machine, use dust collection equipment and regularly remove any debris or rubble to help keep the business in operation during the project. Thus technology can help a contractor to perform the renovation more quickly. A commonly overlooked factor is ergonomics; the more comfortable the contractor is, the more quickly the job can be performed. For this reason, surface preparation equipment that can be adjusted can help improve the speed of renovation is ideal.

Versatile equipment on the job site will also improve return on investment (ROI). For example, with the right tooling, National Flooring Equipment's Helix grinder can grind, polish, edge grind and scarify a surface, offering four capabilities in one machine. Whether the machine is owned outright, hired or used by a contractor, the use of one machine can improve the speed and ease of which a renovation can be completed.

Advances in coating technology can impact the floor's ROI, both in terms of meeting a business objective and in the floor's lifespan. Consider this example; if a business is flooded the floor is mouldy and ruined. Is the solution to lay the same covering again and risk a repeat occurrence? The probable best option is to address the issue underneath the floor by laying a moisture barrier thereby safeguarding the floor against future water damage.

Renovation return on investment is about more than the cost of the project. True ROI is achieved by a project that helps a company to meet a business objective, either saving energy costs or increasing customer spend. Ensuring the floor will last the test of time so the business can continue to reap the rewards of the renovated floor is another important factor. Surface preparation is critical for improving lifespan, which should be borne in mind when considering next adding value through renovation.



Transforming solutions from ALLU AT BAUMA CHINA

The exciting capabilities of the ALLU range of Processors and Transformers will be shown at bauma China 2018. As the largest trade show in Asia, ALLU will show at first-hand how its equipment can help construction companies maximise their business, whatever the application.

Held this year from the 27 – 30 November, bauma China is Asia's largest and most important international trade fair aimed at the requirements of Asia's construction industry. Encompassing construction machinery and vehicles, building material and mining equipment, the show takes place in Shanghai every two years. With over 300,000 m² of exhibition space (indoor space: 200,000 m², outdoor area: 100,000 m²), 2,958 exhibitors from 41 countries will exhibit to more than 170,000 visitors from 149 countries. As such an important trade show, ALLU will reaffirm its commitment to the Chinese and Asian markets by exhibiting a cross section of its Processor and Transformer technology. The ALLU Transformer Series will be a significant part of the ALLU offering at bauma China. This comprises of an excavator/ loader/ tractor mounted processing bucket which screens, pulverizes, aerates, blends, mixes, separates, crushes, feeds and loads materials. This results in the feed material being effectively transformed into highly valuable products, making any business more efficient, and more profitable. Also featuring at bauma China will be the ALLU Processors 300 HD and 500 HD. This is a hydraulic power mixer attachment which converts any excavator into a powerful and versatile mixing tool capable of penetrating and effectively mixing a variety of difficult materials. Such materials suited for the attachment range from clay, silt, peat, sludge and sediment, to dredged material and contaminated soil. Both Processors are equipped with automatic torque adjustment valves located between the two hydraulic motors, with drum rpm and temperature sensors, as well as sensors for oil leakage detection located inside the frame construction. The excavator operator controls the rotational direction of the drums to adjust for most effective mixing. A 2m extension tube is also available for both models as option for added working depth. As well as the above equipment, ALLU will be introducing for the very first time to its Asian and Chinese customers a two-way solution aimed at maximising investment. The ALLU-App will be shown and demonstrated, enabling visitors to see at first-hand how ALLU is about much more than the supply of world-leading equipment. The ALLU stand will be located at: A19



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Coming in all shapes and sizes, these ubiquitous machines are used by concrete cutting professionals almost on a daily basis. Depending on the location and application, they might be called walk-behind saws or floor saws or flat saws or road saws or pavement saws; you name it. PDi's Andrei Bushmarin presents a digest of the latest news from the sector.

Global success for Kern-Deudiam's electric saws

By late 2018, Kern-Deudiam, based in Hövelhof, Germany, has produced and sold nearly 200 pieces of electrical floor saw KDF800-E featuring an 11kW motor. This very impressive for a mid-size company, with the accomplishment being the result of an extensive investment programme carried out by the German manufacturer in the recent years. On the back of this success, Kern-Deudiam has already enlarged its floor saw line with two new 7.5kW models, and is now planning to launch another one at bauma next year. According to the company, Kern-Deudiam electric floor saws are proving popular with contractors all over the world – from Europe to the Middle East to South America. This goes to show that the machines are capable of working efficiently in nearly all climate conditions. They perform equally well in Columbia with its extremely high humidity, or in the bone-dry climate of Qatar with outdoor

temperatures of 50°C, or in the infamous Russian winters when temperatures often drop below minus 25°C. www.kern-deudiam.de



MK-24 Series from MK Diamond Products

The MK-24 Series from US based MK Diamond Products are designed for high performance wet sawing applications. The reinforced steel construction, with balanced weight distribution and ergonomic handlebars, assures straight and accurate cutting and fatigue free operation. These mid-size self-propelled machines accommodate blades of up to 610mm in diameter with RPM of 2,100. The one piece box construction chassis made from hot rolled steel does not flex during operation, and is powder coated to resist peeling and corrosion. The 12 gauge steel hinged blade guard has a 'right-on-the-blade' water distribution system that supplies water to both sides of blade. The blade guard mounts on both the left and right hand side of the saw, and cuts within 50mm of wall or curb. The machines feature a built in tach/hour meter and heavy duty hydrostatic transmission with variable speed drive. Hardwearing 150mm x 50mm non slip rubber wheels with maintenance free hubs and roller



bearing are used for longevity. The forward and reverse travel speed is 0-24.5m per/minute. The MK-24 Series saws are available with two Honda gas engine options, GX630 V-twin or GX690 V-twin, and a propane model with a Kohler CH730 LPG engine.

www.mkdiamond.com



Diacom upgrades DCFS-15 automatic saw

The fully automatic flat sawing system from Netherlands based supplier Diacom is one of the most compact flat saws available in the market today. Measuring 1,500mm x 600mm x 1,100mm and weighing in at 360kg, the machine is powered by two small sized 7.5kW motors placed above the blade shaft for compactness and optimal weight distribution. Being fully automatic, the operator only needs to use joysticks and buttons to operate the saw. This year, the Dutch manufacturer



upgraded the existing model with a frequency inverter. Thanks to this, operators now have the opportunity to choose the optimal rotational speed for different blade sizes ranging from 600mm to 1,200mm in diameter.

www.diacom.nl

Baier Tools features 11 blade cutter

Baier Tools, based in Stuttgart, Germany, has launched the BDN 511 - a hand-guided floor sawing and grinding system featuring 11 diamond blades. The machine is designed for effective removal of concrete of up to 45mm deep, and up to 50mm wide. Both width and depth are variable. The BDN 511 does not require any water, and ensures dust-free operation thanks to the OSHA-approved BSS 606L vacuum cleaner. The operation cost is €0.2 per running meter.

www.baier-tools.com

Alba goes 'Compact'

Alba, a construction machinery manufacturer from the Basque country, has extended its floor sawing range with the addition of the CJP500 'compact' model. Accommodating diamond blades of up to 500mm in diameter, the new machine is an update of the proven CJP500. The operator controls the cutting depth via a fine tuned wheel and a depth indicator screen. A robust folding handlebar allows easy transportation in any commercially available minivan. A conventional plastic 30l tank is installed to

supply the cooling water to the saw head protected by a rugged metal frame. The floor saw is powered by a Honda 13CV motor protected on all sides by a rigid metal structure. Further safety features include an emergency stop button and a stop position brake pedal.

www.alba.es



CA-500 –Technoflex's flagship model

Founded in 1972, Spanish based Technoflex specialises in making light construction equipment for general applications. All machines, including floor saws, are manufactured at the company's 4,000m² facility in Mollet del Vallès, some 20km from Barcelona. Technoflex's flagship model CA-500 features a heavy duty jig welded frame, self-aligning pillow block bearings, adjustable line guide, cutting depth indicator, a 40l water tank and a lifting hook for transportation. Powered by a 13HP Honda engine, the 135kg floor saw accommodates blades of between 350mm to 500mm in diameter, providing a cutting depth of 100mm to 185mm.

www.technoflex.es



(Left) Raúl Gallo, Alba's industrial director, (right) and Altior Navarro, managing director.



MB exhibits recycling products at Ecomondo

Ecomondo is an exhibition focusing on products and services for the 'green economy'. Due to the focus of the show, MB Crusher exhibited its Triple R System, which reduces, reuses and recycles inert material directly at construction sites. The company also showed other recycling equipment such as its crusher and screening buckets for excavators from 2.6t to over 70t; crusher and screener buckets for skid steers and backhoe loaders from 2.8t to over 6t, and rotary handling grapples for excavators from 6t to 25t.

The MB crushers, screeners and grapples are all attached directly to an excavator / loader, and work using the base machines' hydraulic supply, with the bucket transforming the materials into different sizes. If necessary a magnetic separator can be installed directly on the bucket to separate inert material from any metal encountered, with a nebulizer reducing airborne dust particles. Both are operated directly from the cab of the excavator/loader. Through the use of a MB screening bucket, the material is cleaned, ready to be reused, with MB products being designed to work in closed environments (for example inside warehouses and galleries) and in urban centres.

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Floor chaser VFX-125 cutting slots for floor heating systems

Adamas' new floor chaser VFX-125 is designed for cutting slots in concrete (non-reinforced) floors to install plastic pipes for heating systems. Its features include precise cutting depth control, integrated dust extraction, swivel wheels for optimum manoeuvrability and minimum radius of slots (approximately 60mm). It also features an extendable steering/push bar on its right side to push in line with the sawblade, and an adjustable guide bar for perfect parallel cuts.

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BAUMA 2019 AGAIN AIMS TO SET

NEW RECORDS

Nothing in global construction trade shows can be compared to the German exhibition bauma Munich, and in April next year, it is time for the 32nd edition of the show.

PDi Magazine has already started reporting what's coming up in each issue up and will continue to do so until the show. If attending bauma 2019, be assured you will be able to find us at our usual spot there in hall A1.

It is already heating up for the bauma international building and construction exhibition which will be held in Munich, Germany from 8-14 April, 2019. bauma's chairman and managing director recently visited the German Swedish Trade & Commerce Chamber in Stockholm together with the German trade association VDMA's chairman, as well as the president of the construction hoist manufacturer GEDA-Dechentreiter. VDMA chairman, Johann Sailer stated that next year's bauma is expected to be the biggest ever; maybe this is something organisers often say, but in bauma's case, it is usually true that the exhibition surpasses itself year after year.

bauma is still growing

It has also been said that bauma can't expand any more in terms of size, but that is proving to simply be not true. For next year's event, two more exhibition halls has been constructed, and about 9,000m² of outdoors exhibition area has been added. Over 3,500 companies, from almost 60 countries, will exhibit, and well over 600,000 people are expected to come to the show. With an exhibition area outside covering 614, 000m² and 18 indoor halls covering 200,000m², bauma is still the world's biggest trade show. Another reason why bauma 2019 deserves special attention is the fact

that many countries around the world are experiencing growth in their construction and building industries, with increased demand for new equipment and tools.

At bauma 2019 there are set to be many different focuses, with the biggest being digitalisation in building and construction. How digitalisation applies, and how construction machinery can be integrated in networks in order to increase the efficiency of equipment and methods, is set to transform the industry. This is particularly applicable concerning all the product sectors that PDi Magazine focuses on.



From the right, Bauma president Claus Dittrich and VDMA's chairman Johann Sailer.

bauma traditionally has a partner country, and in 2019 the partner country is to be Canada. The reason why Canada was chosen is partially due to the CETA free trade agreement that was signed between Canada and Europe recently. Canada will have its own special day at the show, and there is to be a Canada pavilion, a Canada lounge and a number of Canadian exhibitors set to be at the show.

Everything for the demolition sector

Those of our readers that have visited bauma before will know well that it is possible to find virtually everything related to the building and construction industry at the show. PDi Magazine specifically covers equipment and tools for demolition, recycling, concrete sawing and drilling, hydrodemolition, waste handling, dust and slurry extraction, concrete floor grinding and polishing etc, and these sectors will be well represented at the show. In hall A1 visitors will find all sorts of things that are of interest, with virtually every equipment and tools supplier for these sectors being represented.

Hall A1 is the first hall located on the right hand side when entering the show's main entrance. Here PDi Magazine's booth, number A1.136, can be found. If interested in demolition excavators and hydraulic tools for demolition, recycling and waste handling, these will be spread throughout halls A5, A6, B5, B6, C4, C5 and C6, and also in the outdoor areas F4/ F5, FM and FN. If attending the show, it is highly recommended to be well prepared before. Plan in

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This detailed floor plan illustrates the layout of the 1997 International Fluid Power Exposition. The plan is organized into several main sections, including an 'Exposition Area' at the top, a 'Hall A2' section on the right, and a 'Hall A1' section at the bottom. The plan features numerous booths for exhibitors, each labeled with a name and a booth number. Key exhibitors include:

- Top Section:** DUSTCONTROL, KREBER, SEIBACH, ELEKTRO-RECHTIGKEIT, STINZ, KROLL, PERKIN, EOL, EURO-DENTAL, FEAL, ALMA, HELLO.
- Hall A2 (Right):** HYDRO-TEC, EMB SAUPUNKT, HAMMELMANN, SILLA, ICS BLOUNT, LINDO BELLA, EUROOMA, IMPACTS, KERN, DELOMAN, HILTI, LINO BELLA, EUROOMA, IMPACTS, KERN, DELOMAN, HILTI, LINO BELLA, EUROOMA, IMPACTS, KERN, DELOMAN, HILTI.
- Hall A1 (Bottom):** GÖLZ, KYOCERA, DR. RITSCH, KOLLER, THERMOBLE INDUSTRIES, SAINT-GOBAIN, GFR, LOOR, HAMMELMANN, SILLA, ICS BLOUNT, LINDO BELLA, EUROOMA, IMPACTS, KERN, DELOMAN, HILTI, LINO BELLA, EUROOMA, IMPACTS, KERN, DELOMAN, HILTI.

 The plan also shows various service areas, including a 'Reception' area, a 'Bar', and a 'Lounge'. The overall layout is designed to facilitate the flow of visitors through the exhibition space.

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SURFACE PREPARATION CONTRACTING

GOES TWO WAYS

The world's concrete floor grinding and polishing industry is steaming away with the development of new machinery and tools. PDi's annual feature takes a look at the latest developments for concrete floor grinding and polishing.



Surface preparation technology goes in two directions, aiming at satisfying the requirements of two clear groups of contractors. Firstly, there are those that are mainly focused on floor preparation, often combined with demolition and concrete cutting tasks, which tend to use heavier duty equipment and machinery. The second group mainly works with the concrete floor as a final flooring product, undertaking both grinding and polishing. What we are now seeing however is a trend where more and more contractors that previously only worked on the floor prep side, are now also offering polishing services. Another trend is that it is becoming more common is that contractors are now renting out their equipment, even the newer more advanced systems.

New machinery and tools for floor grinding and polishing are being launched frequently, with many developments coming from China and other East Asian countries. Even though concrete floor grinding and polishing is still increasing, with many new developments occurring, there are still some areas or countries, Japan for example, that have yet to fully embrace either the technology or the opportunities presented therein.

In the following pages PDi takes a look at the very latest developments in the field, and how they are designed to serve the increasingly diverse and complex requirements of contractors and their customers.

Adamas

Adamas has released a new floor chaser VFX-125. The

machine is specially designed for cutting slots (minimum radius approximately 60mm) in non-reinforced concrete floors in order to install plastic pipes for heating systems. Amongst its features is a highly precise cutting depth-control method, and integrated dust extraction system, whilst also being equipped with swivel wheels for manoeuvrability. The VFX-125 has an extendable steering or push bar on the right side of the machine to push in line with the saw blade, and comes complete with an adjustable guide bar for parallel cuts.



Ashine Diamond tools

Committed to the supply of top grade diamond tools for grinding and polishing industries since 1993, Ashine Diamond Tools Co. Ltd is celebrating its 25th anniversary this year. Ashine has now developed a full range of metal bond grinding products for coating removal and concrete grinding, with one of the greatest strengths of the metal bond being the variety of bond choices for different concrete types. The metal formula used enables consistent performance and high efficiency on different concrete surface when grinding. Another new product Ashine brought out in 2018 is a diamond pad system for maintenance and restoration. This new concept has seen the adopting of diamond polishing technology into the cleaning industries. The use of Ashine pads is environmentally friendly, chemical free, efficient and creates a long lasting shine.

www.ashinediamondtools.com

Au Tour du Béton

Au Tour du Béton's range of tools allows users to grind or bush hammer with a simple variable speed grinder. The latest accessory is a highly resistant Ø180 dust shroud that can be connected to a vacuum cleaner in order to limit dust during grinding. The company has also added to its own range of grinders, with two new machines having been introduced: the BU270M bush hammering machine and the TH500M double head machine for both grinding and bush hammering. The BU270M



has a 2.2kW motor and operates on 220V. The bush hammer plate is easily fitted under the machine, which can then be adjusted in height by means of a hand wheel located at the back. The hours run meter, located under the handlebar, enables the user to know when to have the machine serviced and perform routine maintenance. Once the plate is installed, removable weights can be added on the head for higher head pressure. The shroud has an outlet for connecting to a vacuum cleaner, and a bordering system enabling bush hammering as close to walls as is possible.

The TH500M has two heads (2x250mm) providing a working width of 500mm. Equipped with a variator, the rpm goes from 200 to 1200 for the single phase version, and from 200 to 1440 for the three phase version. The double head of the TH500 can be equipped with four branch cup grinding wheels, or three branch bush hammer plates. A lifting lever makes it possible to adjust the height of the machine depending on the plates installed. The current range of grinding machines is also in constant evolution, with as a direct response to customer feedback, products being continually improved. The SH320T, SH270M and SH270MLC are now equipped with new steel shrouds that can be easily cleaned and decontaminated if necessary (when dealing with asbestos for example). The company also has plans for new developments in 2019. These include a fully remote controlled machine, the GR1000T, which will enable both grinding and bush hammering for a work-

ing width of 1000mm (3x270 mm). The GR1000T will have, as with the rest of the range, an integrated stainless shroud and a vacuum cleaner outlet.

For consumables, Au Tour du Béton now supplies both cup grinding wheels and diamond/PCD wings for

aggressive grinding, and finishing tools such as diamond pads. The company's latest development is a bush hammering plate equipped with 300 tips bush hammers for a sanding finish. The model is available for both hand plate and planetary systems.

www.autourdubeton.com



Aztec Products

Aztec Products is a US manufacturer based in Montgomeryville, Pennsylvania, and now develops and manufactures, amongst other things, propane buffers, propane floor strippers and concrete floor grinders and so forth. Aztec also manufactures propane floor burnishers, which are made to maximise efficiency and minimise waste. The propane powered burnishers are more productive, less expensive and an environmentally cleaner choice than battery burners, being extremely fast and, contrary to popular belief, very 'green'. In fact, the company states that the new generation of propane burnishers are the greenest burnishing machines on the market based on machine expense, labour expense and emission certifications. Another advantage with propane machines, according to Aztec, is that they have a machine life of at least six years, and cost very little to maintain when compared to battery driven machines that need new batteries. Other advantages are that the propane driven machines also collect hazardous particles and prevent them from entering the respiratory organs of the operator or others in the vicinity of the



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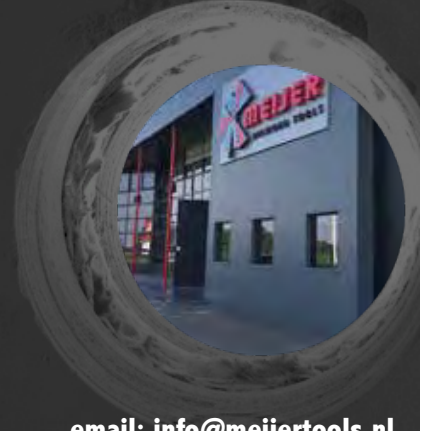
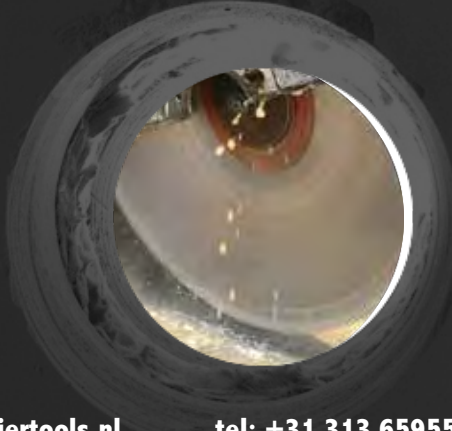
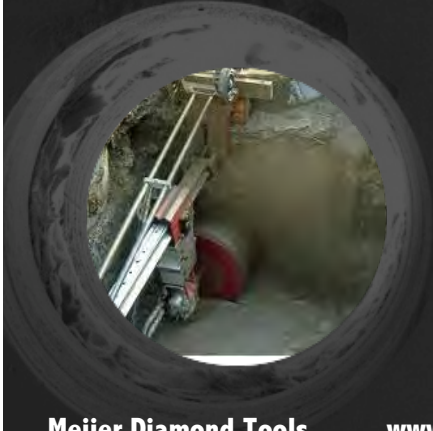
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www.aztecproducts.com

Blastrac

Blastrac has launched a number of new machines since the last feature in PDi, include the Blastrac BMG-2200, or the 'Bull', which is a large scale ride on floor grinding machine, designed for large horizontal surfaces. With two drive wheels fitted to the front, and a swivel castor located at the back, the machine is highly manoeuvrable both on and off jobsites. Also new is the BMG-780PRO, which has three powerful grinding heads which delivers effective coverage and distribution of grinding pressure on each individual head. This means each grinding head can be operated individually. The machine comes as standard with variable grinding speed rotation direction, as well as an independent suspension system. Another development is the BMG-2200 that also has variable grinding pressure, which makes it eminently suitable for a variety of jobsites. It is designed with an integrated powerful dust collecting system with HEPA 14 filters, which makes the BMG-2200 virtually dust free according to OSHA regulations.

The BB-700E MKII is Blastrac's new burnisher designed for polished concrete installations and maintenance. It is equipped with an ergonomically comfortable handle in order to reduce operator fatigue, making it the ideal machine for large jobs such as airports, malls, hotels and schools. The BB-700E MKII has two dust exhausts on each side of the floating shroud connected together with a Y-piece connector for better suction. In this way it is dust free in operation. It is also possible to add an optional weight kit for more grinding pressure.

Two new single disc grinders have been launched. The Blastrac BGS-250SC MKII is a single disc concrete grinder specifically designed for small to medium horizontal surface preparation applications. It is as standard equipped with a speed control system in order to be able to carry out any type of operation (grinding, bush hammering, polishing), and very easy and comfortable to use with low vibrations. It is ideal for surface preparation, surface levelling, bush hammering, and preparation before coating and the removal of coating defects or adhesives. The BGS-250SC MKII single disc grinder is also dust free when connected to the appropriate Blastrac dust collection system.

The Blastrac BG-250TWIN is a single disc concrete grinder that works at two different speeds, having been



designed for fast and easy switching between normal grinding and using bush hammer tools. The special twin electromotor has two settings: low and high speed. The high speed setting gives the normal rpm's for grinding, whereas the low speed setting provides the optimum rpm for bush hammer tools. This feature eliminates the need for changing the pulleys every time there is a requirement to switch between normal grinding and bush hammer tool operation.

Blastrac's new triple disc grinder, the BMG-735RS MKII, is a remote controlled floor grinder with 3x240mm discs, being designed for finishing large horizontal surfaces. As with all Blastrac grinders, the

BMG-735RS MKII has a solid metal construction to create the ideal weight, with the triple head grinder being dust free when connected to the appropriate dust collection system. In addition to its full range of triple head grinders, the company has developed diamond products, which give the opportunity to process any floor and deal with specific applications. The many features of the grinder range include a floating shroud with integrated floor nozzle, smart easy to use keypad with all relevant information, ergonomically adjustable steer, easy accessible hose connection, and wider and bigger wheels.

www.blastrac.com



HTC Sweden

HTC has recently added an entirely new grinder, the Duratq 5 to its award winning Duratq line of grinders. The Duratq 5 has a grinding width of 515mm and is available in two models: one with a motor rated at 2.2kW and the other at 4.0kW. Both models possess an entirely new design, with the focus being on ease of handling and power, with these being key factors in this popular machine segment, as well possessing other features that are unique for a model of its size. The Duratq 5 comes complete with a digital control panel that provides full control of capacity and functions, a new grinding head, hermetically sealed and dustproofed, with high reliability, whilst effective and energy efficient motors provide higher levels of grinding performance. Its modular chassis and grinding head possess quick couplers for easy transport and optimal handling, and its mist cooler system is said to increase productivity by up to 78%. With its compact dimensions, the machine is suitable for both small and medium sized surfaces, and is able to use more than 120 compatible tools which HTC manufactures, making the Duratq 5 highly versatile. It

can handle everything from grinding concrete and other rough surfaces to polishing natural stone and sanding wooden floors.

www.duratq.com

Hypergrinder from Italy

A fairly new player in the segment is the Italian company, Hypergrinder, which has developed a grinder with an exclusive double rotation system, DCT, or 'Dual Cut Tech'. The DCT system enables the operator to choose to use a 'smooth' setting only using the rotation of the tools (DCT 'on' mode), or with the 'classic' complete rotation (DCT 'off' mode). Due to this innovative function, it is possible to lock the rotation of the main plate and allow only the rotation of the tools, which is said to deliver more aggressive and effective grinding. The 'on' setting is ideal for glue and resin removal work, surface preparation and floor levelling, whereas the 'off' setting is designed for general polishing, marble polishing, natural stone and concrete. The Hypergrinder is constructed with a single shell chassis, and is highly robust and compact. A 180° over-turning system provides extra



weight which increases grinding pressure. The weights when moved back facilitate the tilting operation for tool changes, which is an optional feature. The machine has a 46l water tank, and powerful front and rear LED spotlights which are also optional. The machine comes with a two year / 600h warranty.

www.hypergrinder.com

Janser GmbH

German manufacturer Janser has launched what is claimed to be the lightest ride on floor scraper on the market – the Junior Ride-On. A Forward slope design allows for impressive levels of performance in a compact package. Ultra-heavy duty construction, which is normally only found on machines two to three times the size / weight of the new model has been used, and possesses a slide plate which is manually positioned to the desired height while the operator is seated on the machine. Its 'ultra-safe' side entrance capability, means that 'crawling over the front' of the machine is not required, and is said to be the ideal machine for the removal of floors covered by ceramics, carpet, PVC, parquet, wood, epoxy or similar materials.

The company has also launched an even smaller removal device, the Master Mobi II. This possesses a powerful motor combined with a revised hydraulic direct drive system that ensures high output, with extremely low noise levels. The self-propelled (forward and reverse) machine's performance is due to the use of a high torque German designed electric motor. It has an adjustable guide handle in six positions that allows ergonomic operation depending on body size, or the preferred working position. Weights can be easily removed for transportation, reducing the net weight of the machine, which is approximately 75kg with a total operating weight of 105kg.

Janser has also added a large ride on stripper called the ADB High-Speed Ride-On. The key benefit of this machine is that it is said to be the most powerful battery powered ride on stripper on the market today. Despite its size, it has a very quiet operation without exhaust gases and no blade vibrations. The machine possesses a robustly constructed chassis and controls for a long operational life. A high quality hydraulic system means that it is easy to handle, with a very precise operation, and is said to be almost maintenance free. A charger is securely installed in the machine, with a battery management system with automatic 'switch-off' to protect against total discharge of the batteries. A hydraulic front angle plate and deflector plate are included as standard.

www.janser.com



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National Flooring Equipment

Surface preparation equipment specialist, National Flooring Equipment, has developed a range of innovative floor strippers including the 4230-EUR ride on stripper. The 4230-EUR is available with either a manual blade adjustment, or dual lift feature. Being electric rather than propane powered, it releases no harmful emissions, and as it does not rely on a battery, it is not limited on the number of continuous hours it can operate for. "The 4230-EUR is the smallest and most lightweight of our ride on strippers," explained Dave Bigham, director of global training initiatives at National Flooring Equipment. "For this reason, it particularly appeals to the European market, which typically has smaller job sites and more size constraints on those sites."

www.nationalequipment.com

Klindex

Klindex has developed new and exclusive remote automatic control technology for grinding and polishing machines. With this system, called AT (Auto Pilot), Klindex machines are able to grind on their own over the entire area, moving forward, turning and coming back, crossing the grinding tracks, leaving no untreated areas. Without any interruption, it is also possible to modify all the variables of the machine with a comfortable, handy and intuitive remote control. The system fitted on the Klindex 850 features an automatic planetary lifting system operated through the remote control. This simplifies transportation and gives great driving power, as well as providing an automatic swinging func-



tion and automatic reverse. The autopilot also provides automatic grinding of the whole working surface and extra precision during the edge grinding, combined with high levels of manoeuvrability.

www.klindex.com

Schwamborn Gerätebau

German manufacturer Schwamborn Gerätebau GmbH has released the new DSM 250S for finishing and polishing concrete and design floors. This has been developed to not only grind up to the edge during ground preparation, but also during the finishing and polishing of concrete and design floors. Amongst its features are a swivelling grinding head, and an easily

adjustable extractor hood that automatically adapts to the wall contour during edge grinding. In addition, the DSM 250S is fitted with a water tank for wet grinding, and a continuously adjustable rotation speed, which allows edge grinding up to the completely finished design floor. A petrol powered version is also available for the removal of road and parking space markings, as well as smaller grinding work in outside areas without access to a local power connection.

The company has also developed and launched a new range of vacuum cleaners and pre-separators. "Ergonomics and safety to ensure onsite protection of the health of the operators, and other people become more and more important," explains Schwamborn



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chief executive Eckart Schwamborn. "For this reason we revised the complete system of floor grinders, vacuum cleaners and pre-separators." All machines are now equipped with HEPA filters and the more powerful vacuum cleaners, such as the STS 260A, are fitted with automatic filter cleaners for trouble free use without interruption.

www.schwamborn.com

Superabrasive, Inc

Superabrasive has continued to expand its Lavina propane equipment line adding several new propane machines this year, including an all-new 510mm propane grinder, L20G-X, a propane walk behind edger, L13G-X, and two new propane dust extractors, V25G-X and V20G-X. All new machines are said to come with new features for improved productivity, performance and safety on the jobsite. The L20G-X grinder's new features include a completely redesigned frame with dust proof grinding head, low friction chain gear planetary drives, and integrated weights to provide enhanced manoeuvrability along with easy tool changes. A closed loop fuel management system, Lavina 'Fuel Minder', and variable speed engines on all propane models, provide improved efficiency.

Lavina 'Fuel Minder' itself is a high performance digital system for closed loop fuel control, which is responsive to changes in engine load, and provides an optimum air to fuel ratio regardless of operating conditions. It features a fuel lock off capability, emissions

safety warnings with shutdown, and LCD screen with user interface. Lavina engine kits are EPA and CARB Blue Sky recognised, providing significantly lower than standard emissions.

The L20G-X dust suppression fine misting system with four high pressure spray nozzles, produces 10 micron (or smaller) sized water droplets, which effectively suppresses and removes breathable fugitive dust particles from .1 to 1000 microns. This approach avoids the moisture problems of common spray type systems used in combination with dust extractors. Dust collection is also improved, with the hose connection now being closer to the dust source, and utilises a stainless steel camlock attachment. All Lavina machines now come standard with the new Lavina floating skirt with a flexible brush. A new propane edger, L13G-X, possesses a 335mm grinding head, and is powered by a Kawasaki FJ180V engine. Machine features include tilt adjustment to dial in perfect head pitch, a multi-point levelling system, and improved tilting of head to 45°. Furthermore it has a new adjustable handle bar, new splash shield, and rollers to prevent wall damage.

Superabrasive also introduced new small and mid-size propane dust extractors, enabling contractors to be completely independent from the electrical specs on the job site. The new Lavina V25G-X is a powerful and efficient vacuum with automatic filter cleaning and

integrated pre-separator. It has a conical main filter, and a HEPA H13 filter, rated at 99.99% at 0.3 microns, a Longpac bagging system for easier and safer dust disposal, non-marking rubber tyres with brakes, and comes equipped with two separate anti-static hoses (one for the grinder and another one for the wand), as well as a floor tool kit. The V20G-X model is a smaller unit, suitable for small grinders and edgers, and has manual filter cleaning.

www.superabrasive.us

Worx+

Worx+ from Bayswater, Australia, has a great deal of experience in the industry, developing a hard won reputation in the manufacturing and distribution of equipment and tools for concrete floor grinding. The company has recently added two new products. First is the Aqua Zero, which is for grinding wet. It possesses long life resin pads, which are rubber and Velcro backed to increase flexibility and provide smooth operation, with a highly consistent scratch pattern. These are ideal for floor honing and polishing, and wet cutting power trowelled / burnished concrete where zero aggregate exposure is required before densification. Worx+ other new development is the Totally Cut Sikk which has been designed to accelerate the grinding process, as a cut through surface contaminates faster, with the new product being a grinding compound for total metal bond grinding impact on hard to very hard concrete.



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DRS Flooring solutions by Dr Schulze

Better known for its cutting and drilling solutions, German company Dr Schulze GmbH has now investigated and researched the flooring market in order to offer its customers a selection of highly versatile and productive equipment. In entering the flooring market, the company has a vision not to be just another supplier of machinery and tools, but also offer its customers a complete flooring solution from a single source under the name of DRS-FLOOR.

Following on from in-depth market research and product development, well-known drilling solutions manufacturer Dr Schulze has announced its entry into the flooring market, through the unveiling of DRS-FLOOR. This offering, as well as specialist equipment, consists of supplying full customer service 7 days a week to deal with all technical and business related questions about any type of flooring project. Specially trained DRS-FLOOR engineers are now ready to provide advice and assistance to customers on getting the very best out of their flooring projects.

The engineers will also be able to assist customers get the very best out of the new Dr Schulze range of equipment and peripherals. The new products consists of a full range of chemicals (densifiers, sealers, curings, pore fillers) for the transformation of normal concrete to a high performance industrial or commercial floor. There is also a complete range of innovative materials for the repairing of cracks, joints and other surface defects, and heavy duty machinery for all types of floor

processing (shot blasting, scarifying, milling, grinding, polishing and cleaning). In addition, Dr Schulze has developed ranges of diamond tools (PCD, metal bond, resin bond, hybrid bond, fibre based etc.) for virtually any application, together with a wide range of dust collectors and separators.

New grinding machinery

One of Dr Schulze's key developments is a brand new grinding machine, DBS-300 Vario, which has been designed for efficient grinding in wall corners, and in smaller areas with limited access. This has been developed specifically to assist in flooring projects where larger



grinders would not be able to access efficiently, leading to increases in time and cost. In response to these problems, the team from Dr Schulze has designed a new single disc grinding machine with inclinable grinding head (to left/right), flexible mounted tool cover with two rollers, which ensure exact and smooth sliding along the wall, and LED light for comfortable operation.

The main feature of the machine which will appeal to flooring companies and staff is its 0 to 1200 p/min adjustable rpm. This facilitates PCD milling, metal bond grinding and resin bond polishing tools. The DBS-300 Vario is also equipped with 4 kW 230V engine, frequency converter and electric adjustment of the machine's height. This adjustment allows the grinding angle to be changed enabling the position of the machine to be set so that the grinding head pushes against the wall by itself, enabling precise and non-tiring operation.

Cracks and joints

For the efficient processing of joints and cracks, Dr Schulze has developed the DSC-200 multi-purpose chaser. This provides a high degree of flexibility of use, and is able to be fitted with a wide range of accessories, meaning that the machine is ideal for a variety of construction floor work. This includes chasing, chamfering, cleaning of cracks, cutting of new joints, reconstructing of old joints (chamfering, cleaning, removing of old filler), cutting and grooving of floor slabs.

Vitaly all work can be undertaken 'completely dry', with minimal dust emissions, due to opposite direction cutting tool rotation, as well as the machine's effective dust collection system. Available with various types of main drive (electric 230V or 400V and gasoline driven by Honda GX390 engine) the DCS-200 can be used indoor as well as outdoor for road construction work.

Finally, Dr Schulze has developed an efficient, powerful and easy to operate triple headed planetary machine DBS-820-3H, and four headed planetary DBS-820-4H, both available in manual or in remote controlled versions. These multi-head grinders do not use a conventional belt, but rather a completely sealed oil filled full gear transmission, which is unique to the market. In fact none of Dr Schulze's grinders utilise a conventional belt drive, which requires high levels of maintenance and the replacement of the belt. Dr Schulze's solution provides low levels of maintenance, which mainly consists of an annual oil change, with the high performance gear boxes requiring little or other attention.





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BUSINESS BOOMS AT

DEMCON 2018

Visitors and exhibitors were ‘delighted’ with the amount of business done directly at the booths during Demcon 2018. This helped ensure that Europe’s only exhibition dedicated to demolition, recycling, concrete cutting, concrete floor grinding and polishing, dust and slurry extraction, and other associated industries, was again a ‘hit’. However, the amount of business done during the show was just one of the many highlights of this year’s show.

Despite the increasingly colder Swedish weather this September, spirits were high at Demcon 2018. The show, held in Upplands Väsby north of Stockholm, saw some 40 exhibitors display hundreds of exhibits, coming mainly from the Nordic countries, as well as other parts of Europe, Japan and the United States. Many of the exhibitors have attended the exhibition since it began in 1998, and are well known figures in their respective industries. One such exhibitor, Erik Håkansson of Swedish Diamondtool Consulting AB commented, “The size of the exhibition, the specific focus, and its geographical position makes it a very good exhibition.” Erik Håkansson and Swedish Diamondtool Consulting AB, have exhibited at Demcon every year, and Erik continued, “All visitors are customers or potential customers.”

Business is of course the main reason for exhibiting at a trade show, and many of the exhibitors stated that sales of their equipment and services were ‘good’ at this year’s Demcon. “We sold more than we expected, so we are satisfied,” said Ulrika Jonasson of Drome AB, who previously exhibited at Demcon in 2016. “There were many visitors who were interested, and asked questions

about the products.” Britta Larsson of Brokk AB shares that view. “We felt there were a lot of people and a lot

of interest. This year’s edition was the best one so far, according to us!”

Many visitors see many product premieres
Making Demcon particularly of interest to visitors was the number of product premieres. The company Twill-drill presented a unique innovation for concrete cutting where the core bit is collected to eliminate risk of it falling out and causing damage, which also eliminates the need for heavy, and potentially damaging lifting. Other products presented included new demolition robots, new machines for grinding and polishing of concrete floors, robots and tools for effective hydrodemolition and handling of slurry and dust (where the manufacturer Sila showed its new line of vacuums) and much more.



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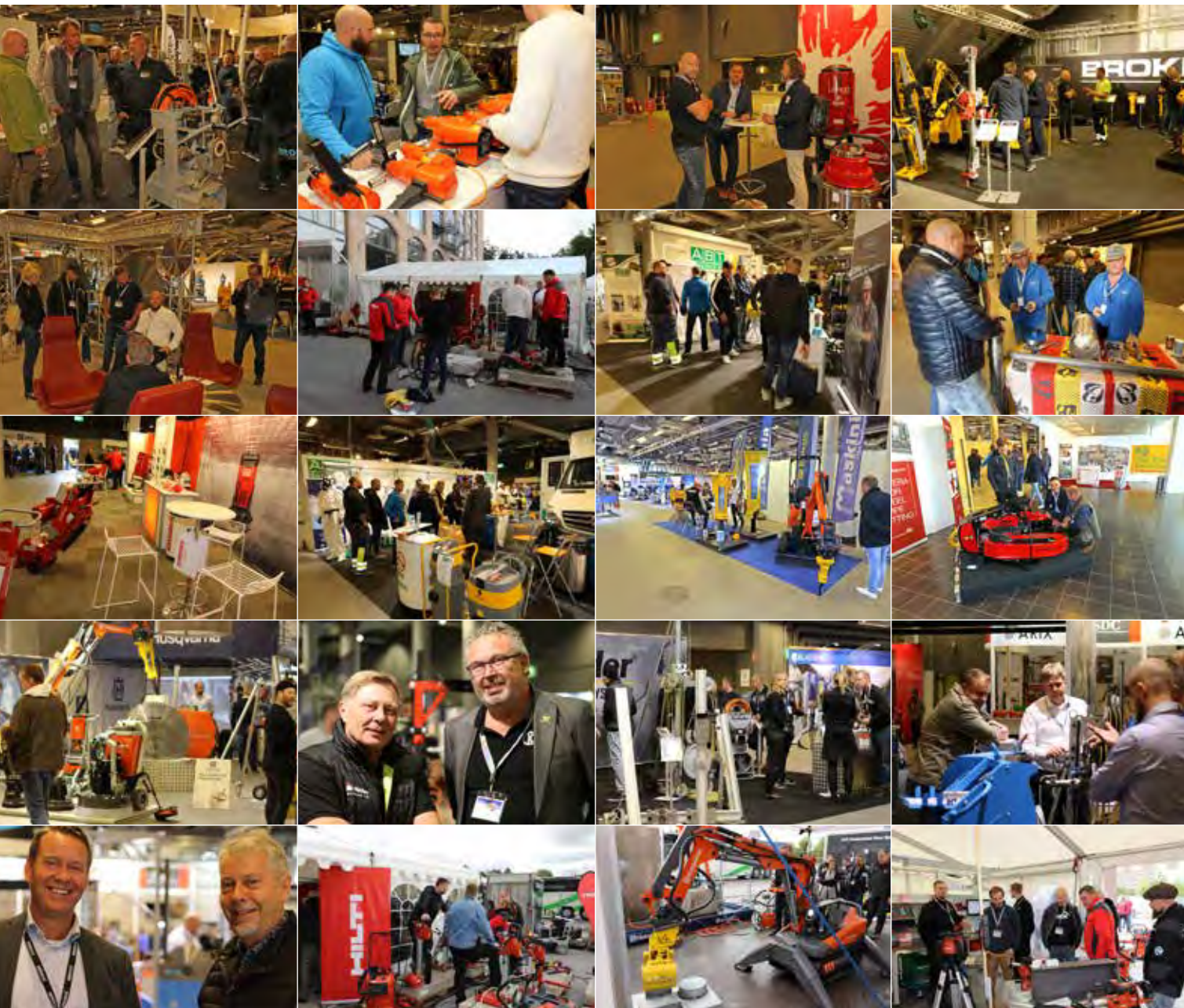
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 **Epiroc**



Sweden's two manufacturers of quick-couplings for hydraulic attachment exchanges, OilQuick and Steelwrist, also exhibited their latest developments. Some of the distributors of hydraulic demolition attachments, such as Trevi Benne (through Andersen Contractor) and Epiroc (Maskinia), also exhibited at their own booths. One particular aspect of this year's show was that many suppliers of hazardous material and waste handling equipment exhibited; with all reporting to be 'highly satisfied' with the exhibition. These new exhibitors were particularly pleased with the high numbers of visitors on both days of the show, which in the past has tended to see high visitor numbers on the first day, but tailing off on the second.

This year also saw more exhibitors with large booths, including Drome, which was located by the entrance, welcoming visitors as they entered the hall. Other exhibitors with expanded booths were Hilti, Jack Midhage AB and Jernevik, whilst joining the 'big-booth club' of regulars were Tyrolit, Husqvarna, Pullman Ermator, SDC, Pentrunder and Dustcontrol.

As with previous shows, there was an outdoor section at the exhibition this year, which enabled the demonstration of equipment and tools. Hilti once again exhibited here (and enjoyed many visitors), whilst Finnish manufacturer Levanto demonstrated Japanese company Shibuya's core drilling systems, which they market and distribute throughout the Nordic countries. Jernevik, Tyrolit, Husqvarna, HTC and Atlas Copco also took full advantage of the outdoor section.

Sponsors and trade associations

The main sponsor for Demcon 2018 was SDC AB (Swedish Diamondtool Consulting) which is headquartered in Nora, and has a subsidiary located in Stockholm. SDC is well known in the business, with its reputation easily judged from the high numbers of visitors to its booth. The next sponsorship level included Ruby sponsor Pentrunder AB and Platinum sponsor Husqvarna Construction Products. The Gold sponsor for the exhibition was Tyrolit; Bronze sponsors were Jack Midhage AB and Drome AB.



The respirable dust particles of crystalline silica are so small ($0.1\text{--}5.0\text{ }\mu\text{m}$) that a dust extractor with a HEPA H13 filter is needed.

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When you work at a construction site, the air surrounding you could contain substances that are harmful if inhaled, even in small portions. For instance, dust from cutting, drilling or grinding concrete, brick and similar building materials contain crystalline silica, which can be hazardous if the very small (respirable) particles are inhaled. These tiny little silica particles might hover in the air for hours, invisible to the naked eye. That's why many authorities have implemented rules and regulations for permissible exposure limits.

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Demcon has always enjoyed the support of leading trade associations. These included Riv& Saneringsentreprenörerna (Swedish Demolition Contractors Association), Håltagningsentreprenörerna (Swedish Concrete Cutting Association), and Branschorganisationen för byggnadsberedning, colloquially known as BFB (The Trade Organization for Construction Preparation). The exhibition was also supported by the European Demolition Association and IACDS (International Association for Concrete Drillers & Sawers) who had representatives present at the exhibition. The two associations also arranged workshops for Nordic contractors during the two day show. BFB held their autumn meeting on the Thursday on the first floor of the Scandic's conference hall with around 70 members attending.

The 'Demolition award winners'

As well as its industry leading exhibitors, a stand out feature of the exhibition is the Demcon party, which also sees the presentation of the annual Swedish Demolition Awards. This year's event took place on the evening of 27 September at the Scandic Infra City Ballroom, where contractors and exhibitors enjoyed a gala dinner, with the winners of the demolition awards being announced. Following a series of speeches and award presentations, the funk band 'High Frequency', entertained the participants. This year's gala dinner was sponsored by SDC AB, Pentrunder and Husqvarna.

The Swedish Demolition Awards jury consisted of Bo Hörnqvist, founder and previous owner of Rivab; Gunnar Landborg, founder of Disab and a key figure in the Swedish concrete cutting industry; Jan Lemos, founder and previous owner of JL Betonghåltagning; Lars Eriksson, founder and previous owner of Södertälje Borrteknik; Tommy Hällgren, previously at Brokk; Arne Holgersson, previous product manager and sales manager of Tyrolit. Other judges included Lars Sandström, president of BFB, Roger Blomgren, secretary of BFB; Michael Appelgren, editor in chief of ME Tidningen, and Jan Hermansson, editor of PDi and organiser of Demcon. This year's awards saw a new category being presented, 'Rookie of the Year', making a total of 17 awards being handed out at the gala dinner.

After the awards ceremony, participants and organisers were surprised by an impromptu announcement of an additional prize. José Blanco from the European Demolition Association, EDA, handed out an honorary award to Jan and Anita Hermansson together with their sons Vitor and André, for their Demcon work. "It's amazing to get recognition for all of the hard work we've done for the past 20 years," says Anita Hermansson, organiser of Demcon. "You feel the work you've put in has been valuable to the industry."

www.demcon.se

Winners of the Swedish Demolition Awards 2018

In connection with the DEMCON exhibition held at Infracity in late September, the Swedish Demolition Award was awarded for the seventh time.

The Swedish Demolition Award is awarded by the Scandinavian magazine Professionell Demolering in cooperation with the Association for Building Preparation, which includes the Association of Demolition and Sanitation Contractors and Concrete Cutting Contractors. The following prizes were awarded this year to the following winners:

DEMOLITION CONTRACTOR OF THE YEAR

Nominated: Riviära, Lotus och Areco
Winner: Lotus Maskin och Transport AB

CONCRETE CUTTING CONTRACTOR OF THE YEAR

Nominerade: Owe Larsson Borr, SHC Betonghåltagning och GUJA
Winner: SHC Betonghåltagning AB

DEMOLITION PROJECT OF THE YEAR

Nominated: Delete, Lotus och Areco Contractor
Winner: Areco Contractor AB

CONCRETE CUTTING PROJECT OF THE YEAR

Nominated: Owe Larsson Borr, SHC Betonghåltagning och Håltagarna Borrteknik
Winner: Owe Larsson Borr AB

DECONTAMINATION PROJECT OF THE YEAR

Nominated: Saneringsspecialisterna och SBG i Stockholm AB
Winner: SBG i Stockholm AB

THE SAFETY & WORKING ENVIRONMENT AWARD

Nominated: Renluftsteknik, Twilldrill och Husqvarna
Winner: Renluftsteknik AB

RECYCLING & ENVIRONMENTAL AWARD

Winner: SVB Tyringe AB

MANUFACTURER OF THE YEAR

Nominated: Brokk, Scanmaskin och Husqvarna
Winner: Husqvarna Construction Products AB

THE GREAT INNOVATION AWARD

Nominated: Twilldrill, Renluftsteknik och Scanmaskin
Winner: Scanmaskin Sverige AB

ROOKIE OF THE YEAR

Winner: Drome AB

HONORARY AWARDS

Honorary Awards were awarded to the following persons:

Lasse Eriksson, Södertälje Borrteknik
Stefan Hilmersson, Aquajet Systems AB
Håkan Karlsson, Riviära AB
Rickard Danielsson, Håltagarna Borrteknik AB
Åke Sonerud, OilQuick AB



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New all-terrain stackers from McCloskey

McCloskey has added new all-terrain stackers to its line-up. The stackers blend the benefits of onsite track mobility with the high productivity of a radial conveyor. This means that in seconds, the conveyor can switch from track mode to radial. The stackers range in size from 18.28m to 45.72m, and are designed for use in any terrain being easily moved site to site without the need to remove the wheels for transport. Built-in leveling indicators allow operators to position the stacker regardless of the ground evenness, with independent hydraulic jack legs to stabilize once in place. Additionally, the stackers feature a unique rear counterweight that counter balances the tracks and wheels, which are behind the stacker's centre of gravity.

The design of the stackers enables a high stockpile capacity, with the radial wheels set well back. The rear counterweight also firmly anchors the tail end during radial mode, delivering stability to the stacker while in operation. "Helping customers achieve greater production levels is what drives us to design and manufacture innovative products," said Paschal McCloskey, president and CEO of McCloskey International. "This patent pending design evolved from watching and listening to the customers' challenges when stockpiling material in a variety of conditions and locations."

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Rockwheel D30 used for flood relief system demolition

Two Rockwheel D30 cutting units have been used for demolition work at the Zeulrenroda flood relief system in Germany. So called 'concrete cancer' had eaten away parts of the relief system, thereby necessitating renewal. Teuchern based demolition company Todte GmbH & Co. KG, used the D30 units to cut through the system's reinforced concrete (grade B55) with rebar ranging from 20mm up to 36mm in thickness, and outer and inner rings being 3m thick and 6m high. The job required not letting any demolition material get into the chute, low vibration and the removal of 1,900 m³ of reinforced concrete in five weeks. "Not only is the strong reinforcement cut through with ease, the 200mm high flat iron is no problem for the Rockwheel D30," says Thomad Todte, the site manager of Todte GmbH & Co. KG.



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**Hilti DST 20-CA
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Hilti has set a new standard with its latest generation of DST 20-CA wall saws. The new saws provide a 30 percent increase in power compared to the previous generation, while having three times the starting torque. The DST 20-CA electric wall saw is the first saw in its class without a power box. The integrated electronics in the saw head simplify transport of the saw and also make lengthy set-up times a thing of the past. A cordless remote control displays the cutting depth in real time. Thanks to the integrated CutAssist system the saw operates on a hands-free basis.

Find out more: www.hilti.co.uk





Red Rhino enters Japanese recycling sector with Nikko Co Ltd

Red Rhino has expanded its dealership network by entering the Japanese recycling sector with the appointment of Nikko Co Ltd (Tokyo) as its authorised distributor, with the company recently welcoming representatives from the Japanese company at its manufacturing facility in Grantham, Lincolnshire. The agreement between the two companies gives Nikko exclusive distribution of the full range of Red Rhino mini crushing and screening equipment in Japan. The first shipment of the RR 7000+ and RR4000 mobile crushers has already taken place, with the second order of RR3000 electric, two RR2000 static crushers, and an RR mobile screener were also in production. These were shipped out in the end of October.



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(Left) Gerrit Gazant, Pladdet's co-owner and technical director, (right) Jonathan de Putter, Pladdet's co-owner and managing director.

PLADDET'S CONTROLLED EXPANSION

Businesses by nature strive for continued growth. When a company ceases growing, it takes a first big step towards its own undoing. However, explosive uncontrolled growth can lead to the same bitter result. Aware of this fact, Netherlands based attachment specialist Pladdet is expanding its business in a rapid yet highly controlled manner. Andrei Bushmarin reports.

Located in Biervliet, a little town in the Dutch province of Zeeland near the Belgian border, Pladdet is an experienced manufacturer of attachments and an accomplished excavator modifier. As an attachment supplier, Pladdet's track record dates all the way back to the mid-1970s. Throughout the decades, high-quality excavator buckets and demolition and sorting grapples have remained Pladdet's core expertise. However, this is about the only thing constant with the ever evolving Dutch company.

Newly expanded facility

By 2014 when PDi first visited Pladdet's headquarters,



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Pladdet's newly expanded manufacturing facility in Biervliet, Netherlands.



Pladdet has significantly expanded its attachment portfolio in the past four years.



The manufacturing process at Pladdet.



Jonathan de Putter showing the company's latest demolition and sorting grapples.

the manufacturer had cemented its position as a leading supplier of excavator attachments in the Benelux, and was preparing a full on onslaught on the international market. At the time Pladdet was a mid-size company with some 60 staff on its roster. Four years on, this number almost doubled on the back of increased production and sales volumes. In order to accommodate the heightened demand, Pladdet embarked on a facility expansion project in November 2017. Having taken almost ten months to complete, it resulted in the total building footprint being expanded from 7,500 m² to 10,000m², with the outside area also being increased by 5,000m².

Extended product line

It was not only Pladdet's manufacturing facilities that

have got bigger in the past few years. The company's attachment portfolio was also enlarged to include a range of plate compactors and a scrap shear series. Europe currently accounts for the lion's share of Pladdet's sales, with Benelux, Scandinavia, Germany, the UK, France, Switzerland and Austria being the major customers. Outside its home continent, the supplier has high hopes for India where it just started operations. Productwise, demolition and sorting grabs are still the bestselling items in Pladdet's catalogue, followed by hydraulic breakers and a range of static and rotating pulverisers. Over the course of the last four years the company's turnover has increased from €24M to €30M.

Developing the dealer network is top priority

Pladdet does not sell its attachments directly to con-

tractors, preferring instead to concentrate on widening its dealer network. As part of this strategy, the Dutch company will be exhibiting its products at bauma Conexpo India this coming December, and next year at bauma, Munich. According to Pladdet's managing director Jonathan de Putter, the company's eventual target is having some 40 dealers and importers all over the world, supplying attachments to end users. When asked about the industry trends, Jonathan de Putter commented that Pladdet, as an official distributor for SMP Parts tiltrotators in the Benelux market, sees a growing demand for tiltrotators equipped with GPS sensors. As for Pladdet's own products in the pipeline, design work for a rail-cutting shear is currently underway, with the launch slated for next year.

www.pladdet.biz

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New Doosan DX225SLR-5 Super Long Reach Excavator

Doosan Construction Equipment has launched a new super long reach version of the company's Stage IV compliant DX225LC-5 crawler excavator. Featuring 8.5 m boom and 6.2 m arm components, the new DX225SLR-5 excavator is an all-round machine, ideally

suitable for jobs such as excavating lakes, cleaning settling banks, drainage work, digging in sand and gravel pits, slope forming and other long reach work. To carry out these applications, the DX225SLR-5 has a maximum digging reach of 15.38 m, a maximum digging

depth of 11.65 m and a maximum digging height of 13.08 m. The bucket digging force is 10.0 tonne and the arm digging force is 6.0 tonne. With an operating weight of 24.4 ton, the DX225SLR-5 is powered by the well-proven 6-cylinder, turbocharged Doosan DL06P water-cooled diesel engine, providing a high power output of 124 kW (166 HP) at 1800 RPM. As a result, the DX225SLR-5 combines its super long reach capability with unmatched high performance, operating features, fuel efficiency, reliability and durability. The DX225SLR-5 offers convenience and lower costs by meeting Stage IV emission regulations through the use of cooled exhaust gas recirculation (EGR) and selective catalyst reduction (SCR) after-treatment technologies. With the DL06P engine, the DX225SLR-5 ensures trouble-free performance as it operates without the need for a diesel particulate filter (DPF). As well as the DL06P engine, which is one of the most reliable and fuel efficient ever produced by Doosan, new innovative and exclusive features have been introduced providing an overall 9% increase in fuel efficiency. Among these features is the new 'Trip Meter Setting' screen which allows operators to check fuel consumption daily (or over a desired period) directly from the control panel and to save even more fuel, there is a special Doosan-developed system, Smart Power Control (SPC), to optimise the balance between the pumps' output and the diesel engine. The DX225SLR-5 is factory-installed with the DoosanConnect state-of-the-art, wireless fleet and asset management system for the company's excavator, wheel loader and articulated dump truck ranges.



DYNASET AT FINNMETKO

Dynaset exhibited its new HPW250 hydraulic high pressure water pump along with a selection of hydraulic equipment at the FinnMETKO trade show. Other partner company's also exhibited Dynaset solutions, with Sennebogen exhibiting its 825 mobile material handler with Dynaset HMG Pro 6kW hydraulic magnet generator. Real Machinery exhibited a variety of Dynaset hydraulic equipment at its stand, including the new HPW250 and HG 10kVA Hydraulic Generator. Seppo Kuisma Oy showed the Dynaset HVD hydraulic directional vibra fitted to the Kire gravel cart. Norcar exhibited a7545 4T loader with Dynaset KPL street washing unit, with Dynaset exhibiting the KPL street washing unit on a 6226 mini loader.

Dynaset also exhibited a HMAG hydraulic magnet attached to Konesilta's Kubota U48-4 mini excavator, and HPTO hydraulic power take off, HG 6,5kVA hydraulic generator, PPL200 high pressure pipe cleaning unit with washing gun and hose reel on K-Auto's Volkswagen crafter. Maanrakennus Jorma Länkinen exhibited the HVB Dynaset hydraulic vibra, HPW-DUST high pressure dust suppression unit, HG 6,5kVA hydraulic generator along with his Volvo ECR50D mini excavator on the Dynaset stand.

EPIROC DEVELOP BIO CHISEL PASTE FOR HYDRAULIC BREAKERS

Used to grease the wear bushings in hydraulic breakers, Epiroc's new bio chisel paste helps prevent bushing wear and prolong working tool life. The formulation is based on special synthetic esters that are easily biodegradable, and have been approved by the European commission for use in environmentally sensitive applications. This has been developed as inside a hydraulic breaker the ambient working temperature reaches up to 1100°C under extreme load. In these conditions, the standard greases available on the market will liquify and disappear. Without adequate lubrication, bushings suffer accelerated wear, thereby increasing the cost of breaker operation.

Tailor made for hydraulic breakers, Epiroc bio chisel paste gives excellent performance across a wide range of temperatures from -30°C up to +1100°C. The bio chisel paste has high load carrying characteristics with very good separation capacity, helping to reduce breaker operating costs by reducing bushing wear and working tool breakage. High water resistance also makes it suitable for underwater applications, with the product offering a high level of corrosion protection. For the breaker to benefit from the full protection offered by the Epiroc bio chisel paste, lubrication should be performed at regular intervals, and care should be taken not to over lubricate.

Epiroc Bio chisel paste is suitable for automatic lubrication on Epiroc hydraulic breakers with ContiLube™ II Micro or ContiLube™ II, or for manual greasing with a grease gun on Epiroc or any other breakers. The product is supplied in cartridges (refillable) or buckets. Cartridge sizes are: 150g, 400g or 500g. Bucket sizes are: 15 kg or 45 kg, with the packaging bearing the EU Certified Eco Label (DE/027/243).



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