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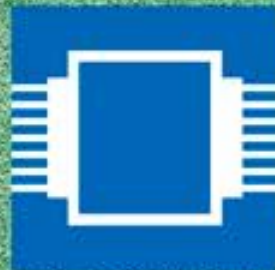
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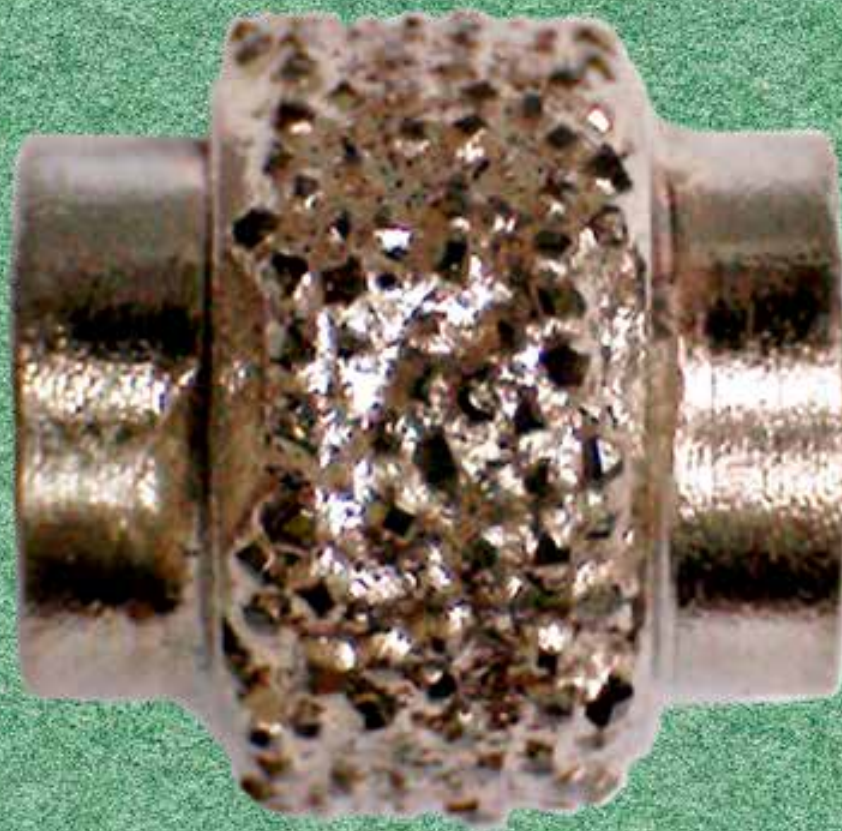
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# Let common sense rule

Dear Readers

Nowadays, it is easy to get confused when listening to the news on TV concerning market fluctuations. A couple of days before writing this column, the world's stock markets fell dramatically, dropping to their lowest levels since September 2016, falling between 4 and 7%. I have written about these fluctuations many times previously, and believe that people paid too much heed to these occurrences.

Some market analysts state that the US construction market is declining after years of growth. Others say the opposite. And in Europe, the construction market is now declining, forcing large construction companies to dismiss thousands of employees. While others say that many countries in Europe are reporting strong increases in demand. Sweden for instance, and the whole Nordic region, is doing very well even if there are signs of decline. So who should we believe?

For me, in my position as an editor, I often feel like turning off the TV, radio and social media. There are so many people having diverse opinions that I feel they are often as not just guessing. Market trends and economic changes around the world are so extremely hard to predict that 'experts' and global analysts would benefit everybody by keeping their mouths shut, which would result in less turbulence and produce a more stable market.

Today, when news travels so extremely fast, a false or incorrect comment from some of the world's leaders or 'experts' just cause a lot of headaches and extra work for everyone. I get the feeling that many don't even know what they are talking about. My scepticism comes with the age; I don't believe everything I am told to the same extent as I did when I was younger, with a major benefit of aging being you rely on your own experiences and knowledge and are not taken in by the constant 'soundbites' we are all subjected to.

I am of an age that I remember the world long before internet, and when news reporting was simpler, and more straightforward than it is today. Then the 'news filter' was even tighter, and often types of news were missed, particularly in the 1960's and 1970's in a social democratic country like Sweden.

Generally these were not better times, and I am sure a lot of mistakes were made back then, but during that time, let's say in the 1980's, news and business cycles were much longer. People were not obsessed by short term trends and let common sense rule to a far bigger extent. For manufacturers or contractors, it was easier to plan for the long term. Today the economic cycles makes the business jump up and down, with this largely having a negative effect particularly on larger companies.

Or should we say, 'nothing changes, everything is new'? In order to stay on top of things you always need to be innovative, which is change of course, but we constantly require 'new'. This is of course fundamentally good, but is not required all the time, as in my view it creates confusion. All in all I feel we should let common sense rule a little bit more often.

Ok, now let's talk about what is in this issue of PDi. The World of Concrete show in Las Vegas took place in January, and PDi was there. I found it to be a great show, and the biggest ever. In Europe, there is only one major international show this year, Intermat in Paris. We have had a lot of exhibitor news, and you can find

a number of releases concerning new products in this issue, but PDi issue 2 will be the dedicated show issue.

There are also several special features in this issue. These include hand held equipment, concrete core drilling equipment, GPR equipment and new concrete crushing buckets. There are also many interesting site reports, new releases and company profiles. I hope you enjoy the issue and the New Year with PDi Magazine.

Jan Hermansson  
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## Words from the IACDS President

### Tell me, please, HOW YOU DO IT?



As you know, I try not to be too absorbed by issues in the UK in this column because this magazine goes worldwide and, therefore, what's happening in Britain doesn't necessarily always resonate with fellow professionals all around the world. In this instance, I will, however, be focussed on a massive piece of news that has had major implications for all areas of the construction industry in the UK but, by the same token, I will throw out a plea to everyone who is reading this. More on that later.

So the big piece of news was the collapse of a company called Carillion – a massive player in the construction industry in the UK, and behind some of the biggest contracts across the country. The fall out has been huge, requiring government intervention with industry-wide reaction and requiring support to those affected.

While many issues were individual to Carillion, what it highlights again to me – and to others in our sector – is that construction in the UK continues to live right on the edge when it comes to profit margins. It's understandable, to a degree. The client wants to drive down price on the main contractor and it, in turn, looks to make savings with each of the sub and specialist contractors it uses to deliver a job. "Great," thinks the client, "That was great value." But at what cost?

I am writing this at the start of February – the time of year when social media goes into meltdown over the film Groundhog Day as the famous movie is based around the repeated events of February 2. And, quite honestly, it feels a bit like that in this situation as we have this debate about margins and slow payment yet again.

We, in the industry, have to work together to avoid the race to the bottom – we have to work as a supply chain with the client to deliver value and efficiency, but we have to make sure we build in sustainable margins when we are quoting for work. If we don't then, quite honestly, we will see more and more companies going the way of Carillion in the UK.

I, like so many other specialist contractors, want to be able to earn an honest margin in order to be able to invest in the

latest technology, in training and apprenticeships as well as in the business as whole. We are not talking about massive amounts here, but enough to remove some of the risk that comes every time you take on a job that you know doesn't have any room for financial manoeuvre. I always say that profit gives you the ability to make choices in business.

Of course, add to that the staple ingredient of late payment and it's a recipe for cash flow disaster. And that is when businesses start to fail. But it requires the industry – and its client base – to work together, or we risk losing more great businesses that simply can't survive if we carry on as we are.

So, here's my plea to my colleagues around the globe: tell me, please, how you do it?

Do you avoid the situation I have described above and, if so, what is the process that your country or your industry has adopted to insulate yourselves from this issue? Or are you in the same situation that we find ourselves in still in the UK where companies chase so hard for contracts that we end up in a race to the bottom – delivering projects for cost or, worse still, at a loss just to bring the work in?

It's an issue that I am sure will never be fully resolved, but my genuine belief is that we can come close to solving it if we create the right atmosphere for dialogue between all parties involved. It has to start with the client, and educating them that cheapest is not necessarily best; and that picking up the pieces of a failed contractor is going to be more costly than paying a bit more from the outset.

However, as I said, I'd be grateful to hear your thoughts on this and if there is anything we are missing or any systems that are working around the world, I'd love to know about it.

Finally, I am looking forward to seeing everyone at the convention in Maui, Hawaii in March, followed in May by the IACDS Annual Convention which this year returns to Japan in its capital city Tokyo for the first time in 18 years.

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



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## Words from the EDA President

### International Demolition Network

It is clear that we now exist in a globalised world where distance is less significant than ever, and communication is in real time regardless where in the world we are. Consequently all developed countries, their economies and industries, have transformed the ways in which they work in order to seize the opportunities that globalisation offers.

The demolition industry is no exception, and in developed countries is moving toward establishing world-wide relationships with the main objective of sharing innovation, information, concerns, solutions, best practice and challenges. As the European Demolition Association (EDA) we are proud to confirm that this has been our ultimate aim for several years.

The relationship between EDA and the National Demolition Association of the United States (NDA) is at an all-time high, with the participation of presidents, secretaries and members from both associations in shared annual events. The EDA also extends this collaboration to countries outside Europe and the USA, including Australia, New Zealand, and Japan to name just a few.

The task of establishing strong relationships between the demolition industries from all over the world is quite onerous. The EDA has made significant advances during recent years, welcoming several members from countries outside Europe including the USA, South Africa, New Zealand, Australia, Turkey and Russia.

Through the involvement of all members, wherever they are in the globe, and through the forming of strong relationships with fellow associations, we at the EDA believe that international demolition networking is wholly achievable. The EDA is always available to assist in the development of national associations, and we were recently involved in the development of associations in Serbia and Finland, as well as assisting in the reactivation of the Republic of Ireland Association.

Finally, The EDA endeavours to hold activities and events with the objective of gathering demolition companies together. These events are attended

by members from Europe, and our invitation to attend is always extended to demolition companies from all over the world.

Our next event is the European Demolition & Decontamination Annual Convention 2018, which will be held in Vienna, Austria from 7-9 June. Despite the title of this event containing "European", this event is open to all demolition companies from any corner of the world.

We respectfully invite all demolition professionals who may be interested in participating to visit our web page: [www.europeandemolition.org/convention](http://www.europeandemolition.org/convention) in order to obtain information about the event.

We look forward to seeing you there.

#### 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](mailto:info@europeandemolition.org)  
[www.europeandemolition.org](http://www.europeandemolition.org)



William Sinclair



## 2018 is looking good for Dynaset

Dynaset had a great year in 2017, with the company's turnover growing by over 20%. The company released new silent hydraulic motors, which are now integrated into the vast range of its products. What is more, customers' are reportedly 'excited' about the new innovation with excavator operators now either getting the new silent hydraulic generators on their machines or getting an update (silent motor).

There are plenty of new developments coming up in 2018. Dynaset will continue cooperation with company's global dealer network and is also set to improve cooperation with its OEM customers. Additionally there are a number of new products in development and improvements to the existing ranges.

In order to further aid growth, ongoing factory expansion will be completed in 2018.

The new facilities will include more space for production, sales, R&D, storage and new conference rooms. The expansion of the factory will also give more options to organize training facilities.

The latter is of importance as over the years Dynaset has organized a number of different events for its personnel. The company is about to improve 'workplace health promotion' as well as other operating functions encompassing a wide range of activities. This will be of direct benefit to the many new employees which are being recruited directly due to the company's growth.

Dynaset would like to thank everyone involved in its business for the highly successful 2017 and wishes everyone an even more successful 2018.

[www.dynaset.com](http://www.dynaset.com)

## Deutz apprentice the best in Germany in his field

The Deutz apprenticeship scheme has once again been recognised as being among the best in the industry. On 4 December 2017, Deutz apprentice Kai Wollenweber, received an award at the 'Best in Germany Ceremony' in Berlin for achieving the best result in the metal technology specialist exam. The 19 year old scored 99 out of a possible 100 points. "We are very proud of the achievements of

our training centre and of our apprentices. This accolade presented by the Association of German Chambers of Industry and Commerce (DIHK) shows that the quality of our training is right up there with the best in Germany," says Dr Margarete Haase, the member of the Deutz Board of Management with responsibility for Finance, Purchasing and Information Services.

[www.deutz.com](http://www.deutz.com)



## Hilti breaks CHF 5 billion sales mark

2017 saw the Hilti Group continue to grow throughout all business regions with sales increasing significantly to CHF 5.1 billion (€4.4 billion). Year on year sales were up +10.8% in Swiss Francs and +9.6% in local currencies.

"We owe this milestone to our global team that is working with consistency and dedication to implement the objectives of our corporate strategy. Once again, we have launched more than 60 new products, extended our portfolio significantly and strengthened our global sales team. With this solid foundation firmly in place, we managed to make even better use of last year's favourable market conditions. It is our intention to maintain this momentum," says Hilti CEO Christoph Loos,

expressing his confidence for 2018.

The performance of the business regions reflects the broad based growth experienced by the company. With all markets performing favourably, Europe increased +9.7% in local currencies, whilst North America grew by +8.5% and Latin America by +9.7%.

This upward trend was further strengthened globally, although the general economic situation continues to stabilize at a slow pace. Asia/Pacific saw growth of +5.3%, which was counter balanced by the dynamic performance of the Eastern Europe / Middle East / Africa region (+17.4%), with Russia leading the way by reporting yet another set of strong growth figures.



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## Greg Mahoney

Following a battle with a serious illness, it is with great sadness that the death of former president of the CSDAA, Greg Mahoney, has been announced. He will be remembered as a loyal and loving husband to Jenny, and loving father to James and Emma.

Greg enriched the lives of other contractors throughout Australia and the rest of the world. His passion for the industry and the friendships developed saw Greg awarded the CSDAA Life Time Membership Award in October last year which we know he was delighted to receive.

To say Greg had sawing and drilling in his blood is an understatement: Greg's pathway into the sawing and drilling industry began upon leaving school in 1974 when he joined Smith & Osbourne in Richmond, Victoria. In 1982 Greg moved to the Gold Coast, being appointed a director of Condrill Services.

Greg influenced all who came into contact with him, always showing loyalty and fairness to all who worked with him. Hard work helped build Greg's career and reputation within the demolition industry, with Greg although fair, never being one to suffer fools gladly; he called a spade a spade and if you didn't like it, so be it.

Greg's eight year stint as president of the CSDAA is a testament to his passion for what he loved doing. Greg paved the way for developing and growing the Australian Concrete Cutting & Drilling Association through trade shows and quarterly staged meetings. His passion for work was only matched by his passion for water sports and the annual fishing trip to Darwin.

As a present to himself for 40 years of service, Greg invested in a new set of wheels to get him around town. Not one to do things by halves, the 1965 Chevrolet had pride of place in Greg's garage. When Greg sent CSDAA president Jason Franken the photo, Franken said it only had one thing missing, and that was a floor saw on the back! "If there is an afterlife, I am sure Greg is cruising around the pearly gates in the big red Chevy, for a life well lived," commented Jason Franken.

Greg's personal qualities matched those of his working life. For those that knew Greg, and those that didn't, he was always there to lend a hand to anyone in need. Rest in peace and enjoy the next journey, you will be missed by an industry you so well served.

## Two become one: Kern-Deudiam gets new logo

Sometimes something very small can cause something very big to happen. Thus new packaging for its diamond cutting discs was the reason that Kern-Deudiam had a new logo designed which has led to a common identity for the company.

It has been 10 years since the merger of Kern and Deudiam which is now one of the leading German manufacturers of diamond tools and machinery. Many would have thought a new logo for the company would have occurred many years ago, but this has occurred only now.

"Replacing an established logo is always a tricky business. It should not be forgotten that the merger of two companies is a tremendous personal and temporal effort. We simply lacked the capacity to create and present a new common logo at the time. Moreover, we also wanted to demonstrate to everyone that we would continue to guarantee the best quality and stability. That's why we've been using the well-introduced logos of both companies side by side for a long time," explains company managing director Marko Waymann.

Marko continues: "Now the time has come where we just cannot wait any longer. We deliver our products to more than 60 countries. In recent years, we have invested heavily in expanding our international busi-

ness relationships; especially in the Russian and Spanish speaking countries. The longer we wait, the greater the effort will be during the conversion, because all catalogues, packaging, stickers and products have to be reprinted. So we invited international tenders for the design and got some really great, creative drafts. Together with all fifty employees, we selected the best design out of 180 proposals."

The new logo is simple, clear and possesses excellent recognition. It comprises of the company's blue and black colours. Next to that are the words 'Kern' and 'Deudiam', one underneath the other. "The latter is an abbreviation for 'German diamond tools'.

"This is also a confession for us. We are one of the few companies in the industry that has its own production and development in Germany," says Waymann.

"We look forward to presenting the new logo at the International Hardware Fair in the spring of 2018 in Cologne. Of course, the conversion will be a process over several years, but with the new logo shortly after our 40th anniversary in 2017, we also want to convey a message: The merger process is finally completed. Two companies have become one, two teams are one. Now there is only one 'we', and that is called Kern-Deudiam," so concludes Marko Waymann.



## Record growth for Rubble Master in 2017

Austrian mobile crushing and screening manufacturer Rubble Master has reported a 27% increase in turnover in 2017. Growth has been put down to strong products and a successful expansion of its sales network, as well as developments in its customer and supplier relationships.

The considerable sales growth follows on from the company's anniversary in 2016, with the intention now being for growth to be continued through the successful expansion of its global sales network in Asia, America and Australia.

The dealership network is already extensive, with Rubble Master currently being represented by 70 sales partners throughout

the world. "We have managed to grow our business activities particularly in Asia and Australia thanks to some new dealers with strong local ties," stated Rubble Master CEO Gerald Hanisch. The development of the dealership network has seen around 170 mobile crushers being shipped, with Nepal and Indonesia being destinations for the first time.

As well as sales experiencing growth, the company has placed a great deal of emphasis on developing its relationships with its suppliers. This has led to further integration of the supply chain which was identified as a long term project which will be continued throughout 2018.

"As a company which exports 95% (of

its products) we are conscious of our local roots. The supplier strategy, which is based on sustainability, has led a conscious decision in favour of local suppliers. This is a further development of our CSR strategy which we already practice in respect of our employees, customers and products. We aim to take this development even further over the coming years," so adds Gerald.

The aim in 2018 is to again focus on innovative solutions such as Spec2App. This was launched last year as a concept in which a multitude of different requirements can be fulfilled with one crusher due to its platform strategy.

**[www.rubblemaster.com](http://www.rubblemaster.com)**





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## Taylor & Braithwaite new Rubble Master distributor for northern UK

Rubble Master, the leading mobile compact crushing manufacturer has recently appointed Taylor and Braithwaite (T&B) as its exclusive distributor for the northern part of the UK. The company, situated in Appleby, focusses on offering premium brands from companies which are well respected in their respective industries.

"We are delighted to have found a partner in Taylor and Braithwaite", says Rubble Master CEO Gerald Hanisch, "they are extremely professional and have an excellent operational set-up and attitude to push the Rubble Master products to even higher levels. We appreciate their commitment to customer satisfaction and expect great results in the future."

Currently celebrating their 50th Anniversary, T&B supplies equipment for the construction and recycling industries. Shaun Montgomery, sales manager at RM, and Ian Burton, sales director at T&B, are looking forward to a valuable and successful business relationship, which has already started with the first RM 90GO! being sold.

Both RM and T&B are now planning sales workshops, training and customer visits, all geared to increasing Rubble Master's market share.



## Breaking new ground at Worthy Down

Working on the site since 2015 as part of the Skanska £280 million MOD Wellesley development, Keltbray Remediation has used an innovative remediation technique at Worthy Down near Winchester, UK. This is being used to minimise environmental impact and cost, reducing the need to export and import large volumes of material for the contract.

The remediation technique involves materials management of over 60,000 m<sup>3</sup> of the excavated construction waste, which is being beneficially reused in non-construction areas on site, such as sports pitches. By reusing the material, the impacted material remains on site, and will be used to help shape parts of the new development. Once the construction arising's have been engineered in place beneath the sports pitches, it is covered with clean chalk that will form the base for new sports playing fields.

Keltbray Remediation has drawn on expertise from colleagues at Keltbray Environmental Solutions (KES) and Keltbray Plant. Work now commences on the second tranche of three works phases; involving around 100 people working in five site teams until 2020.

**[www.keltbray.com](http://www.keltbray.com)**

## Kinshofer acquires Doherty Group

Kinshofer, one of the world's leading sources of high quality excavator and loader crane attachments, recently announced the acquisition of the Doherty Group, a New Zealand based excavator attachment manufacturer. Under the terms of the agreement, Kinshofer acquired 100% of the Doherty Group. The entire Doherty management team will stay with the company, with Doherty Group co-owner and managing director, Jeremy Doherty, remaining in his post.

"Kinshofer continues its strategy of providing the industry with a 'one-stop-shop' solution of outstandingly engineered products to increase efficiency and, more importantly, the profitability of its customers," said Kinshofer Group president and CEO Thomas Friedrich.

"Acquiring Doherty Group was the next step in our approach to be a local manufacturer in New Zealand and Australia."

Doherty, a family business established in 2001, focuses on developing and marketing attachments and equipment that enhance the effectiveness and versatility of carriers. This is particularly important for small and mid-sized contractors seeking high equipment utilization. The acquisition adds additional product segments to Kinshofer's range, including quick couplers, buckets and other excavator products as well as improving Kinshofer's distribution channels in New Zealand and Australia. Doherty will continue to develop and sell its products globally with production and sales synergies expected.



## New Schwamborn website provides a complete overview to 'help gain ground'

"Gaining ground with us", is the promise German manufacturer Schwamborn has given its worldwide client base in the building industry for more than 80 years. The company, which develops and produces hi-tech machines and accessories for professional grinding, milling, trowelling and floor cleaning, has recently launched a new website, which provides a complete product overview as well as a lot of practical tips.

This will prove to be particularly beneficial as flooring has seen the development of new, innovative building materials which have led to continually changing attractive flooring solutions. This means perfectly tailored floors can be built today for almost any application.

It's not only the new website, as Schwamborn flooring specialists actively support architects, clients, building material suppliers, machining and grinding companies. The expertise and advice ranges from producing the right building materials and installation of flooring, to the protection and care of floors.

Depending on the differing demands of modern floor construction, an optimised combination of machine and accessory offers the best solution for almost every conceivable application, encompassing every conceivable floor. On its new website, Schwamborn clients and distributors will find all the accessories and machinery they require to build a perfect floor.

The new website, designed with a fully responsive layout, enables visitors to find guidance for the perfect configuration of their machinery. In addition, there are many practical tips and insights into the development and manufacturing of Schwamborn tool building which is proudly "Made in Germany".

**[www.schwamborn.com](http://www.schwamborn.com)**

## ENRICO PRANDINI TO BE NEW CECE PRESIDENT

As of January 1 2018 Enrico Prandini is the new president of CECE. Previously the first vice president, he succeeds Bernd Holz. The CECE presidency is a rotating post held for two consecutive years by each of the associations representing their member nations.

As well as his current CECE role, Enrico Prandini is managing director of Komatsu Italia Manufacturing, one of the Komatsu's global officers and vice president of the Italian Construction Equipment Association - UNACEA.

During his presidency Enrico Prandini will continue the long term strategy of his predecessors, of which, one of his main goals will be to build customer loyalty through a common vision. This was agreed as one of the key success factors for the industry during the CECE Summit in 2017. Technological change, skills shortage and challenges arising from digital construction will also be areas looked at along with the value chain.

"In the coming years, we want to create more dialogue opportunities with value chain representatives in Brussels," said Enrico Prandini. CECE is beginning this process on 22 February at the European Industry Day 2018. "Together with the construction industry we will be organizing a digital construction seminar and invite all parties interested in the subject of digitization to attend." Cooperation

along the value chain will also be the theme of this year's CECE Congress, which will be held in Rome from 17 to 19 October 2018.

Enrico Prandini believes that CECE should also focus on two other priorities during his presidency, namely continuing CECE's campaign to further visibility and political recognition for the construction equipment sector. "In this framework, we should seize the opportunity to gain more attention and impact," Prandini says. He will also continue to focus on the European single market. "We will keep on promoting the idea of fair competition and free trade for all market players in Europe."

As President, Enrico Prandini now represents 1,200 construction equipment manufacturers in Europe. They generate 40 billion euros in yearly revenue and employ around 300,000 people.



## Transforming customers' business - New distributor for ALLU

ALLU is proud to announce that the Qld Rock Breakers division of RD Williams is its new distributor throughout Australia. The company will not only be supplying a comprehensive range of ALLU Transformer and Processor attachments, but will also be providing full aftermarket care, spare parts and dedicated customer service.

Based in Brisbane, servicing clients nationwide, RDW is considered to be an industry leader when it comes to earthmoving equipment solutions. Founded in 1988 by Rod Williams and Dick Karreman, RDW has successfully been established as a people first organization, committed to its people and

its customers, providing quality solutions in everything it does.

By using four dedicated business units, the RDW team uses its extensive industry knowledge and problem solving skills to find the best solution for its clients' needs: Now an established name through Australia, RDW is able to provide levels of services and support which are synonymous with the ALLU brand.

In practical terms this means that as well as RDW providing 'point of contact' customer support, when the situation requires it, the company will be able to call on round the clock assistance from ALLU's Finland based

technical support department. This will further enable customers to benefit from the specialized advice and assistance that has made ALLU the world leading supplier of material processing attachments – the Transformer and Processor series.

Of the appointment of RD Williams, Marjut Lindroos, group marketing manager states: "We are sure that the combination of ALLU equipment and global aftermarket support, together with the local knowledge and industry expertise of RDW, will enable ALLU customers throughout Australia to benefit from a winning combination."





# THE BEST OF ALL WORLDS

***A strong U.S. construction economy, coupled with the absence of ConExpo's triennial competition for contractors' winter travel budgets, lifted World of Concrete to its best showing in nearly a decade.***

According to the organizers, the 2018 edition of the concrete and masonry industries' annual weeklong sun-splashed spotlight attracted more than 58,220 registered visitors. These were able to see the products and services of nearly 1,670 companies spread across more than 69,437m<sup>2</sup> of indoor and outdoor exhibition space at the Las Vegas Convention Centre.

Although the show's new and updated equipment offerings appeared in all shapes and sizes, the main topic of conversation - at least judging by the attention getting displays at many booths - was the tiniest of substances: silica dust. Small wonder, as this was the first World of Concrete since the enforcement of the new U.S. exposure control standard began last September.

As a result, dust was everywhere at World of Concrete, literally and figuratively. Most exhibitors offered a solution for managing it while still providing the productivity and reliability contractors crave in order to stay competitive. The first steps into World of Concrete's famed Silver Lot for example, brought a visitor to Bosch's array of PRO+Guard dust collection attachments that interface equipment of all ages, and chisels of all lengths, with suitable HEPA-filter equipped vacuums.

Some of the many other vacuum offerings included CS Unitec's new updated Model CS 1445, which automatically cleans its filters without interrupting suction when decreased airflow is detected. An electro-magnetic pulse cleaning system maintains maximum suction by

automatically shaking the HEPA filters to remove debris during operation.

Blastrac rolled out a five model line of dust collectors, ranging from the BDC-1133, designed especially







## MORE POWER ON ITS WAY

Vanguard, the commercial engine brand of Briggs & Stratton, introduced the first in its complete line of 3.7-9.7kW 1 single cylinder horizontal shaft gasoline engines that will provide extra power and efficiency. The Vanguard engines' governing system allows for more speed at load, enabling users to cut more concrete. The governed idler delivers more usable power through precise speed settings. Other features include year round starting capability, enabling work in temperatures as low as -29°C; an advanced fully cyclonic air filtration system with nanofilter media and auto shed technology; and a single ignition and fuel shutoff designed to prevent oil dilution during transport.

Its oil filters can last approximately 600h between changes, resulting in a filter lasting up to two oil only changes every 200h. This feature enhances productivity, and reduces maintenance costs. The engine's dimensions and bolt configuration make it a 'drop in solution' for equipment powered by other engine manufacturers. The engines also produce reduced decibel levels, and less harshness of sound.

The first available model in the new single cylinder line, the 4.8kW Vanguard 200, will be available to OEMs and for engine repowers in 2018. The remaining models will be introduced over the next two years.



Dan Cudney, Sales Manager at Lissmac USA.

for asbestos and other hazardous materials, to the BDC-133, a three motor system available in both M and H class models. Blastrac subsidiary Diamatic introduced the BDC-122, a compact single phase HEPA dust collector for small walk behind grinders. The company also introduced two propane powered models, the BDC1115 and BDC-1110. Both feature fibreglass housing, and are powered by 656cc Briggs and Stratton engines.

Makita unveiled its versatile SCV04Z vacuum that offers both corded and 18V cordless operation complete with an efficient 3 stage HEPA filtration system. In cordless operation, the SCV04Z uses two 18V 5Ah batteries to deliver up to 65 minutes of continuous run time on a low setting, and 30 minutes on high setting, with 74 CFM and 914mm water lift of suction. In corded operation, the vacuum delivers 127 CFM and 2438mm water lift.

Georgia based diamond tool supplier Lackmond Products debuted its first collaborations with its Netherlands partner B+BTEC Tools - the AquaSpeedPro wet drill, rig and bit system. Lackmond vice president Ted Skaff,



Rocco van Vliet, Blastrac's European Marketing Manager riding the world's biggest grinder.

explained that the system can drill up to two times faster, and last three times longer when compared with conventional methods, with the added advantage of easily changeable bit tip diameters and drilling depths.

"By using water to remove drill sludge from the bore hole, the operator no longer needs to perform a 'pumping action' while drilling," Skaff says. "The water also keeps the bit from clogging."

Putting water to work to control slurry was also one of the themes at Hilti's expansive outdoor booth, where the company introduced its DD-WMS 100 water management system for any diamond wet core rig on the market. An innovative recycling system turns just over 18l of water into a full day 115.3l supply, while slurry is captured in an easily removable multi-layer filter bag for disposal.

## Many new products

World of Concrete offered plenty of other new tools to help deal with dust, as well improve owners' profit margins. Hilti unveiled its TE 2000-AVR demolition





"Aztec Products came well armed for the show". Marketing manager Julie Beverly demonstrates the company's latest innovations.



Werkmaster's owner Brian Wilson operating the company's latest propane-powered grinder Magnum XTX.

hammer, which provides 35.2Nm of impact energy, and 1,800 impacts per minute. Weighing in at 15kg, the TE 2000-AVR is easy to manoeuvre and transport, featuring exceptionally low vibration from its brushless SR motor. The hammer is designed for use with another new Hilti product, the TE SPX-SM pointed, self-sharpening chisel. Made from high alloy steel with a unique induction hardening process, the chisel's innovative X-polygon wave design and tube effect combine to prevent sticking, while also optimizing dust removal.

DeWalt has expanded its range of large SDS Max demolition hammers that promise 20% more power, led by the DCH733 FLEXVOLT® 60V MAX brushless combination hammer. Along with producing 13.3J of impact and 350 rev/m, the DCH733 features an innovative E-Clutch® system that increases user control in bind up and stall situations by sensing a stall during use and managing torque accordingly. Additional models in the product line include corded 47mm and 50.8mm combination hammers that achieve 13.3J and 19.4J respectively. Accompanying the new hammers are DeWalt's SDS Max bits, designed to reduce fatigue and minimise breaking. The redesigned head geometry is bonded securely to a high alloy steel body that remains stable under high impact.

Skilsaw followed up on last year's debut of the MEDUSAW worm drive concrete saw by adding an adjustable arm, creating a 177.8mm walk behind model, the SPT79A-10. The arm extends to the user's height and folds and locks into place for transporting and storage as a single unit. Designed for both wet and dry applications, the saw's three point line of sight allows for accurate cuts, while a large foot and oversized wheels increase stability.

Another interesting product adaptation was at the Bosch booth, which displayed a GPS tracking module

retrofit that can be added to the company's SDS-max™ hammers. Already available on the GSH27-26 Brute™ turbo breaker hammer, the device allows the tracking, location and status of equipment. Notifications of unauthorized use are immediately sent via a smart phone app.

Some new products, though, could only be hinted at. At the ICS Blount booth, visitors saw a rough model of a new 536-E electric saw that the company says will make its debut in Europe this summer.

EPIROC, Atlas Copco's newly formed subsidiary, introduced itself at World of Concrete showing its extensive line of hydraulic attachments that builds on the parent company's proven quality. "Operating as

a separate enterprise with a narrower focus will help us be better partners," says product manager Rich Elliot, who continued, "That means better design, more customer focused improvements and innovations, and better support."

The first product to be displayed with the Epiroc brand was the ER 1500 double headed transverse drum cutter, which the company says is ideal for tunnelling, special foundation work, demolition and soil mixing. An integrated dust suppression system maximises safety and helps achieve those aforementioned new OSHA silica dust regulations. Weighing 1,750kg, and fitted with 44 tungsten carbide tipped picks, the ER 1500 is suitable



Switzerland-based Airtec launched a new range of planetary grinders at WOC. On the right, the company's managing director Thomas Wyser.



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Sima's award-winning products were presented at WOC by the company's US distributor National Equipment Wholesale. Left to right: David Flake, Vice President of Operations, David Vilchez Peinado, Business Development Manager at Sima, Darrell Hudson, President.



The Baier Tools team enjoying the show.



Ted Skaff, Vice President Marketing at Lackmond presenting the latest diamond consumables.

for carriers in the 20t to 40t class. It delivers 120 kW of power, a cutting force of 40.6-69.9kN at 350 bar, and a standard cutting head width of 880mm.

### Back to the grind

Concrete floor grinding and polishing machines seemed to enjoy a somewhat higher profile at World of Concrete 2018, with several of the market's strongest players introducing new products. Scanmaskin hopes to hit a home run with the latest addition to its World Series line, the Scanmaskin 32. According to the company, the 800mm electric and propane models are among the most robust and technically advanced in the industry, with cast alloy components, a floating shroud, and new tool

head for better balance and support. Weighing 630kg, the electric model is powered by a 15kW motor, with the 600kg propane model having a 18.5kW engine.

Superabrasive launched its L20G-X, a 510mm propane grinder with an operating range of 610-1,090 rev/m. The 292kg model is equipped with a Lavina fuel minder digital control system for closed loop fuel management, and a new misting system producing 10 micron water droplets which effectively suppress and remove dust particles from 0.1 to 1000 microns.

NewGrind extended its Rhino series with the 800mm RXL 1000, a 1,544kg self-propelled electric machine featuring quick belt change. A biased weight system that can add up to 272kg using standard Olympic

plates, and the ability to edge within 18.4mm of a wall also feature with its 279mm discs may be set from 200 to 900 rev/m.

Prep Tech Systems added a high degree flexibility to grinding with the Prep Tech ONE, an interchangeable system that allows users to mix and match 508mm, 762mm, and 864mm heads with the same frame. "That makes upgrading easier and more affordable as job demands increase," said the company's Scott Mourtisen who added, "You can take on a new, larger job without having to buy an entirely new machine."

At the top end of grinding size is the Blastrac BMG-2200 ride on machine, with three powerful BMG-780PRO grinding heads. As with other large





The US Saws team at WOC.



Makinex's generators were the best-selling item at WOC, says the company's marketing coordinator Dani Planto.



"The concrete cutting industry is getting increasingly glamorous". The Lackmond booth.



Dr. Martin Gödicke of Hilti.



(Left to right) Mike Booth, Product Manager at Genesis Attachments and Martin Hartl, the Managing Director at Hartl Crusher North America. In North America, Hartl Crusher operates under an exclusive agreement with IES Group – one of the world's strongest players in the attachment business.





"The New Zealand invasion". New Zealand-based Holer Diamond Tools team visiting WOC.



The Makita booth.



Wayne Hart, Communications Manager at Makita USA describing the advantages of the company's latest battery-powered breaker.



(Left to right) Dominik Hartl and Martin Hartl of Hartl Crusher.

Blastrac machines, the BMG-2200's heavy duty dust collection system is equipped with a pre-separator, an automatic pulse filter cleaning system, and Longopac bagging system.

Visitors interested in the latest in larger equipment weren't disappointed. John Deere introduced the 344L compact wheel loader capable of dealing with a 5,750kg full tipping load, and an articulated frame / rear wheel steering combo. John Deere also added three new mid frame models to its G-series skid steers and compact track loaders. With a 52-55 kW range, the three new

models can load a 3m sidewall dump truck or hopper, and feature cabs with features such as 'back-up' cameras and heated seats.

Gehl introduced its new Pilot series of hydraulic compact track loaders to the construction market. Operating capacities for the three model series range from 839 to 1,111kg at 35% tipping load, and 51 to 55.4kW. All of the machines feature seat mounted 'pilot-operated' joystick controls and a unique fold up front door that affords both easier operator access and a lower overall machine height of 2,100mm. The series also feature the

automatic track tensioning which initiates proper track tension when the engine is started and relieves the pressure when the engine is shut off. Along with simplifying routine maintenance, this feature allows for the loader's tracks to be replaced in as little as 20 minutes.

Kubota introduced two new compact excavators: the 3t KX033-4 features an optional dipper arm that can extend the machine's reach to 787mm. The new U247-4 tight tail swing excavator takes over from the company's popular U25S model, providing a digging depth of 2.8m and a bucket digging force of 9,509.7 Nm.





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## McCloskey Introduces UF1200 Universal Feeder

McCloskey now has a high capacity, powerful and reliable universal feeder in its line-up.

Designed for virtually any application, the UF1200 can significantly enhance production levels. The UF1200 comes with a standard Tipping Grid, and offers a number of options including Vibrating Grid, Aggregate Hopper, Mulch Hopper or Shredder. The stockpile height at 24 degrees reaches 4.0m (13'-3") making the feeder an efficient partner for stackers.

"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 design takes their processing to a new level, and we will continue look at new ways to develop our products to meet the unique challenges of projects around the globe."

[www.mccloskeyinternational.com](http://www.mccloskeyinternational.com)

## SDLG launches new compact wheel loaders

SDLG launched two new compact wheel loaders in India at Excon 2017, the country's largest construction equipment trade show. The 3t L936L and 4t LG946L wheel loaders were unveiled during a customer event on the afternoon of 13 December at the Bangalore International Exhibition Centre. The two new wheel loaders, already available in other Asia-

Pacific markets, were displayed at SDLG's outdoor booth alongside the brand's bestsellers – the LG958L wheel loader and the G9138 motor grader. With the introduction of SDLG's two smaller capacity wheel loaders, customers now have more models to choose from in the 3 and 4t range which has been developed due to growing customer demand.



Liebherr has released a range of XPower® L 550, L 556, L 566 and L 576 wheel loaders, which are now available in an optional tunnel version. The new tunnel package includes a number of features aimed specifically at optimising the robustness of these machines. This ensures high standards of safety and machine availability for tunnelling applications.

The new tunnel package for includes a special sound-proofed cab design that boasts a windscreen made of

armoured glass. It also offers a roll over protection system (ROPS) and effectively protects machine operators from falling objects (FOPS), which is key in tunnel construction.

In the Stage IV / Tier 4f emission standards compliant XPower® wheel loaders, exhaust gas after treatment is handled by the Liebherr SCR system. The tunnel package enhances this reliable system with the addition of a diesel particle filter, which minimises the emission of particles and contaminants in tunnels.

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## 518 delivers 'Basic' screening solution

The Basic 518 Trommel screen has seen manufacturer Doppstadt produce a solution ideal for the 'basic' material sorting requirements of small and medium municipal environmental services and recycling plants. This will enable them to deal with medium quantities of light materials, effectively screening and sorting, turning waste into valuable products for reuse.

The Basic 518 has been designed to separate mixtures of organic substances, garbage and soil into a fine and an oversize fraction. This will enable operations to produce their own compost through separating green waste and waste wood, and recycle waste materials such as sand, gravel and soils resulting from construction projects.

The Basic 518 itself is equipped with high quality Doppstadt components, and is driven by a powerful CAT diesel engine, which complies with E3A or Tier 4i. The feed hopper is able to accommodate 4m<sup>3</sup> of material, which is separated into two fractions and discharged via a rear and front conveyor.

Fines are discharged directly to the front by a long lower conveyor, with oversize being discharged by the rear conveyor, which, depending on operational requirements, may be placed on the left or right side of the machine. The compact design of the Basic 518 has been designed to facilitate ease of operation and reduce maintenance.

Although aimed at providing a 'basic' or initial solution to material sorting, the machine is able to develop with the requirements of the user. This has been accomplished through the ability of the Trommel to be retrofitted as circumstances change.

One of other innovative development is that of ease of transportability. The Basic 518 has been designed to fit inside a standard 12m (40 ft.) seaborne container, which also enables safe and easy road transport by low loader.

[www.doppstadt.com](http://www.doppstadt.com)



## TRAXX LAUNCHES NEW COOLER FOR THE WORKSITE

The Esby Arctic Pro Rugged series are coolers that have been built to work in the toughest of conditions. The latest addition to the range, the new 70L cooler, reflects this design ethos and includes features common to the company's existing 'Esby' cooler range. These includes such items as a removable 40mm closed cell cushion seat, heavy duty rubber side bumpers and feet; ready fitted auto tilt LED cooler light, pp to 50mm of foam insulation in lid and body, built in tie down points and

bottle openers, stainless steel fittings and lockable lid as well as many more.

With matching black powder coated stainless steel fittings, and a seven day ice retention, the cooler is ideal for leisure use such as day trips out, camping and boat trips as well as being ideal for work sites. The Esby Arctic Pro Rugged coolers have been designed for effective, efficient use, and built to withstand tough Australian conditions.

[www.traxxcp.com.au](http://www.traxxcp.com.au)



## GENESIS INTRODUCES THE IMPACT TOOLS GROUP

Genesis Attachments is pleased to announce the launch of its Impact Tools Group. This consists of four 'families' of technologically advanced, minimal maintenance products designed for the demolition, construction, utility, excavation and concrete grinding industries.

The four distinct offerings comprise of the GHB Hydraulic breaker, GCG Cyclone grinder, GBS bucket screener and GBC bucket crusher. These are all highly productive, readily available attachments enabling customers to now obtain an even broader variety of equipment solutions from Genesis.

Available in a complete range of models for a variety of impact energy classes, the GHB hydraulic breaker's performance leading features include an optimized power to weight ratio. Speed and power may also be adjusted to match the material being broken, with the breaker also possessing dry fire protection and a unique hammer mounted auto-lube system.

The GCG features design advancements over traditional grinders with a two hose hydraulic system that eliminates the need for a case drain line and simplifies installation. A soft start system and protective valving that protects the motor from over pressure, over-heating and misuse are also included.

The GBS provides a mobile and cost effective solution for sizing natural rock and recycling material on site quickly and efficiently. The extra-large drum results in higher production, with individual replacement screens for pre-screening and final classification.

Unlike conventional crushers, the GBC has a unique, aggressive 'figure of eight' crushing motion that produces a high quality cubical product, enabling the aggregate to be reused on site. Extra-large jaw plates provide optimal performance and longer life.

[www.genesisattachments.com](http://www.genesisattachments.com)





## Welcome to the **AQUAJET ACADEMY**

In 2018, Aquajet will raise the bar higher with the introduction of a new training program, called Aquajet Academy. In addition, the company will use its annual 'Hydrodemolition' days in April to unveil several new products.

A basic training program is always part of the delivery process after a customer has purchased an Aqua cutter robot from Aquajet. The course participants go through a program focused on safety, operation and service of the equipment. A certificate of approval is issued to each participant following completion.

The new program, Aquajet Academy, takes all this to a significantly higher level in order to unleash the full potential of the product. The training program covers all aspects of advanced hydrodemolition, which allows the operator to work more efficiently in a safer way.

"After a training course in the Aquajet Academy program, the operator is ready to take on most advanced

challenges in the safest way possible. Our training program leads to a more efficient and timesaving operation. The operators can focus on the job at hand and spend less time on figuring out how to maximize the performance. To gain access to the product's full potential, education is essential. When the operators empower themselves with new skills, it's mutually beneficial for the contractor and the developer. It's basically a win-win situation for all", says Dennis Hilmersson, training and support manager at Aquajet Systems.

The Aquajet Academy program consists of six important courses: products (2 days), hydrodemolition (3 days), streamlining of work (2 days), safety & technique (1 day), service (1 day) and train the trainer (3 days). Combined, they cover all an operator needs to know about handling, maintenance, training, safety, high-pressure regulations, pumps, hoses, and much more.

[www.aquajet.se](http://www.aquajet.se)



## **HITACHI WHEEL LOADER** helps drive Swiss recycling plant

TIB Recycla SA (TIB) has selected a new Hitachi ZW310-6 wheel loader for the company's new recycling centre in Lugano, Switzerland. The machine was supplied to TIB with a five year / 6,000h extended warranty and service contract by the country's official Hitachi dealer, Probst Maveg. TIB was established in 2014 as a partnership between three companies: Toggenburger, Implen and Bizzozero.

The company's recycling plant was completed in August 2017, with the ZW310-6 being utilised on site to drive up the steep ramp and feed the plant with freshly delivered materials. Its other main task is to load delivery trucks with finished aggregates for transportation by road or rail. The purpose of TIB's plant is to recycle excavated and demolished materials, enabling the materials to be reused in construction projects across Switzerland.

The ZW310-6 wheel loader was delivered in the third quarter of 2017, along with three other Hitachi medium excavators – a ZX240-5, ZX135US-6 and ZX300-6. TIB was happy to invest in the new machinery due to the reliability of the equipment and the relationship it shares with Probst Maveg. "Hitachi is strong in this region and the most important element for us is the exemplary service," says TIB's director Roberto Bizzozero.

"We benefit directly from our dealer's top quality approach, and enjoy a friendly business relationship with high levels of professionalism from our main point of contact. The ZW310-6 is working for around 15h per day, so it has to be reliable," added Roberto.

Despite working with another manufacturer over the past 30 years, Roberto has enjoyed 15 years of Hitachi ownership even more: "We opted for the ZW wheel loader due to the total cost of ownership, driven by its low fuel consumption as well as the high price / quality ratio."

## **New single cylinder engine from Vanguard**

Vanguard's (Briggs & Stratton) has launched a new single cylinder engine which has a horizontal shaft and integrated cyclonic air cleaner. The key advantages over competitors are that it possesses an easier starting, smart programmable ignition, as well as a deeper well which enables better cold weather starting.

The governing system allows for more speed at load, enabling users to cut more concrete. The governed idler delivers more usable power through precise speed settings. These features reflect the de-

sign philosophy which enables users to get to work faster than with current models that are available.

The engine possesses a remote operation capability, and a coated carburettor for better fuel tolerance resulting in extended maintenance intervals. Oil filters may last for 600h between changes. Oil is recommended to be changed every 200h - both being significant improvements over current standards. These result in greater productivity from less downtime and reduced maintenance costs as less filters are required as is less oil.

The new integrated cyclonic air cleaner also possesses a Nano filter media with autoshed technology. This proprietary media was designed specifically for the new line of engines. The Vanguard engines have global product support and a three year limited warranty. They are also designed with current products on the market in mind, being able to fit in a body for users who need to replace or upgrade their current engines.

The Vanguard 200 (203cc) will be available in 2018, with future models including Van 400 (408cc), Van 160 and Van 300.





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## PERFECT COMBINATION

Hitachi equipment has proved to be ideal for a landscape gardening company in southwest Germany. Susewind is using two compact machines to construct and maintain private gardens near the city of Freiburg, as well as for forestry projects it undertakes.

One of the company's latest projects was to build a terraced garden at the rear of two newly built houses in the suburb of Bötzingen. Hitachi Construction Machinery (Europe) NV's (HCME) authorised German dealer – Kiesel, with whom Susewind shares a long and mutually beneficial relationship – supplied the ZW75-6 and ZX55U-5. These complement Susewind's existing fleet of Hitachi construction equipment, which includes the ZX10U-2 and ZX33U-3 mini excavators.

Owner Sven Susewind is happy to continue his association with Hitachi: "The service we receive is outstanding. My two most important considerations when buying new equipment are the overall service I receive and the quality of the machine."

On the Bötzingen site, the ZX55U-5 is being used for general preparation work, including the removal of debris and weeds. Its design is appreciated by its operator Erwin Ufheil: "Having a short-tail machine is very convenient. Owing to its shape, the Hitachi mini excavator is ideal for the type of work we're doing. For me, the number one feature has to be the hydraulics, which are extremely smooth."

The ZW75-6 is being used to transport materials around the busy site. The compact wheel loader was also clearing away any overgrown vegetation and loading the trucks. When necessary, it was also used for road sweeping in the surrounding area. "The narrow shape and overall design of the wheel loader are ideal," explains its operator Rainer Kühnle. "I particularly like the Hitachi ZW75-6, because of its manoeuvrability. It offers excellent visibility and I can see every corner of the machine. It's also highly responsive."

The combination of the ZW75-6 and ZX55U-5 has been a revelation for Sven: "The partnership between the two Hitachi machines is fantastic, and I always aim to have them working together on the same project. Having all the equipment from one brand not only makes servicing easier, but it also looks impressive on site. The design of the Hitachi machines is wonderful and owning them creates an excellent image for my company."



## HATZ ANNOUNCES NEW COMPACT POWER PACKAGE

Motorenfabrik Hatz has introduced a new liquid cooled three cylinder diesel 3H50T engine as a fan-to-flywheel version as well as in the OPU (Open Power Unit) variant. The new engine operates in the under 19kW performance class extending the product range of its H-series. With a displacement of only 1.5l and a maximum output of 130kNm, the engine is said to possess the highest torque in its class.

The Hatz 3H50T achieves its output without an intercooler and possesses a compact construction without diesel particulate filter (DPF) providing significant benefits particularly for use in compact machines. With its low weight and small installation dimensions, the performance data of the engine exceeds many older engines in the 19 to 37kW class. This provides equipment manufacturers an alternative for use in compact machines with small engine compartments. Additionally the engine may be used for upgrading existing machines to EU Stage V.

The new engine satisfies current and future emission regulations, including EU Stage V as well as EPA Tier IV final. The engine achieves an extremely low particle mass that also undercuts the limit value by a factor of 10, without any further exhaust emission after treatment, such as exhaust gas recirculation or diesel oxidation catalyst.

The Hatz 3H50T OPU provides a 'plug and play solution' that is particularly suited to the requirements of manufacturers of compact machines that need engines fully ready for installation. This makes the new engine ideal for lifting platforms, hydraulic systems, drilling machines and stationary applications such as pumps and alternators. With its integrated and optimal design of the radiator, hoses and cabling as well as the electronics, the Hatz OPU concept greatly simplifies design and installation.

[www.hatz-diesel.com](http://www.hatz-diesel.com)

## Deutz showcases engine portfolio

Deutz's US subsidiary, Deutz Corporation, Georgia (USA), exhibited from 23 to 26 January at World of Concrete 2018 which was held in Las Vegas. Among the engines showcased were the TCD 2.9, TCD 3.6 and TCD 4.1 models, which have been highly successful in the US market.

Deutz also gave details as to how it will be extending its portfolio in the higher output range from 2019, with four new in-line engines from 9 to 18l capacity. The TCD 9.0 four-cylinder engine delivers 300kW of power and generates 1,700Nm of torque. The TCD 12.0 and 13.5 are six-cylinder engines producing, respectively, 400kW of power and 2,500Nm of torque, and 450kW of power and 2,800Nm of torque. The new TCD 9.0, 12.0 and 13.5 models share a common platform concept with a high degree of parts commonality. This concept reduces the service and training complexity and simplifies spare parts stocking.

At the top of the range, Deutz showed the TCD 18.0 six-cylinder engine with 620kW and 3,600Nm. This is targeted particularly at heavy construction equipment with high power and torque requirements.

A further highlight was the Deutz Service Locator app. This gives customers of the Deutz Corporation in the US a means of quickly finding the contact details

of their nearest authorised Deutz dealer. Visitors to the Deutz stand were also provided with information about genuine spare parts, the engine refurbishment program, lubricants and coolants and the Deutz Corporation's value added services. The latter explained how the company provides rapid, customised drive solutions that are tailored to the specific needs of OEMs.







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[pullman-ermator.se](http://pullman-ermator.se)



## D-Drill team help hold back the Blackpool flood waters

Engineers from specialist diamond drilling and concrete sawing company D-Drill, worked against the clock and the tide to help ensure flood waters are more effectively managed in the Blackpool, UK, area. The company, which has offices across the UK (including in Wigan), sent five members of its team to remove ten tonnes of concrete from an existing storm culvert at AMP 6 Anchorsholme Park.

The skilled team, working on behalf of main contractor C2V, worked for four days from Friday through to Monday to remove the 5x1.5m blocks of concrete to assist in the construction of new storm water detention tanks. The D-Drill team, led by manager Neil Wood, used a combination of track sawing and stitch drilling to make sure the job was done as quickly as possible, creating two new openings in the concrete culvert sewer.

The openings were formed in tandem to speed up the process, as any change in tide or weather conditions would have resulted in the operation grinding to a halt leading to the culvert being submerged in water. "All works were carried out in a medium risk confined space environment. Both openings were completed at the same time to make sure we could get the job done as quickly as possible. In total, ten tonnes of concrete were carefully cut into sections and turfed out and removed," explains Neil Wood.

"We achieved a nice clean cut with minimal disruption to the surrounding area, and it was all removed in a controlled and safe manner, with no structural loss to the existing 1930s culvert. The client was very happy with the professionalism and the flexibility of the works. Our operatives went that extra mile to bring this contract to a successful conclusion in such a limited timescale," added Neil of the successful works.

[www.d-drill.co.uk](http://www.d-drill.co.uk)



## **BAD TIDINGS** in South Africa

***It is a race against time to beat the ravages of Indian Ocean tides and winds in the South African port city of Richards Bay on the eastern seaboard of the province of KwaZulu-Natal. PDi's Africa editor, Kevin Mayhew, visits and reports.***

Almost 40 years since the 1979 commissioning of the unmanned lighthouse which was placed in Richards Bay to safeguard shipping at the then new, and now one of the world's largest bulk ports, the lighthouse now looks about to be wrecked by the sea. Originally 200m from a sea cliff, the 11m high life-and-ship-saver is now only 5m from the rapidly eroding bank, soon to topple into the relentless Indian Ocean.

The Richards Bay local authority has laid the task of dealing with the light house squarely at the door of Transnet, Africa's largest multi-disciplinary logistics parastatal, which claims that plans are in place to replace the lighthouse with a new one. The executive manager of Lighthouse and Navigational Systems at Transnet Port Authority (NPA), David Gordon, says that the company is working with the city municipality to, "Put the necessary services in place for a new lighthouse on a new site in Richards Bay."

Time is now at a premium, as the recent rapidity of erosion was of great concern to the NPA. However, construction of a new facility is set to begin sometime in 2018, according to Gordon.

Local opposition political party, the Democratic Alliance (DA), is demanding immediate action. This would entail that the existing lighthouse be 'deconstructed' before being re-assembled further back, so all procedures can be completed to begin construction of a new lighthouse at a fresh, safer site in Richards Bay.

A local geologist, Dr Alan Smith, from the University of KwaZulu-Natal's School of Agricultural, Earth and Environmental Sciences, who has been studying the erosion of the bank for many years, cautions that the lighthouse should have been moved years ago. He believes it will be risky to deconstruct it now as that entails bringing in heavy equipment for the task.

The South African Maritime Safety Authority (SAMA) has now weighed in. It states that it will issue a maritime warning about the possible imperilling of the facility which possesses a 25 nautical mile light range and flashes three times every 15 seconds in order to guide shipping away from rocks and sandbanks around the port's entrance.

All of this means that a delicate problem faces the very experienced South African demolition industry.





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## THE 2018

# BUCKET LIST!

Hydraulic crushing and screening buckets have over the last decade seen an enormous upswing in use. The number of manufacturers has increased dramatically with a huge range of OEM buckets now being available.

### 2017 a strong year

It can probably be agreed that crushing buckets were invented in Italy, but buckets for screening and soil remediation were first developed in Finland. 2017 saw many new developments which were all covered in PDi. To recap: Allu released its Transformer Series at Conexpo with another Finnish manufacturer, Cernox, launching its new Cobra S series of crushing buckets. Hartl Crushers launched its HSS800 screening bucket, with MB Crusher launching its BF90.3 crushing bucket and MB-S18 screening bucket.

At Conexpo MB Crushers also showed its new line of crushing and screening attachments designed for compact equipment such as skid steers, loaders and backhoes. The products are called MB-L for crushing and BM-LS for screening. And last but not least, Finland's Ajutech Oy launched two high-capacity drum

**2017 was a strong year for the hydraulic crushing and screening bucket market with many new developments being seen. 2018 is also beginning strongly with new releases from Hartl and Genesis. Jan Hermansson reports.**

crushing buckets in its Vipermetal line which comprises of screening buckets for excavators between 2 to 70t and loaders from 1 to 50t.

### What's new from Hartl in 2018?

Even though 2017 was a lively year in terms of news in the crushing and screening bucket segment, there are new things to talk about even though 2018 has only just begun. Hartl Crusher is a well-known manufacturer in this field, and has more than 85 years of experience with distribution in more than 65 countries, with the company being particularly known for its Hartl Quattro Movement jaw crusher design.

The company is in 2018 launching its latest generation of crusher buckets called HBC, which features

a totally new operation. The crusher has a new special hydraulic block system which provides a reverse crushing function called RCF. The system enables the easy and fast release of blockages in the chamber of the crusher. This results in more constant production and efficient operation.

Beside bucket crushers, Hartl also offers a complete series of bucket screeners in its attachment range. The HBS screeners have an extreme wide inlet area enabling more material into the chamber, delivering greater screening efficiency in the drum thereby producing a higher volume of accurately screened material.

Also new in 2018 is the HSS screener series, which has been developed for use on skid steers, loaders and tractors. The already launched HSS 800 is to be followed





by two larger sizes, the HSS 1200 and HSS1600. Easily changed screen meshes are available in a variety of sizes and brushes for all the screeners.

**[www.hartl-crusher.com](http://www.hartl-crusher.com)**

### Genesis entering the crushing and screening bucket segment

US manufacturer Genesis is well-known for its different demolition attachments, but the manufacturer has now announced its new series of buckets for screening and crushing. The company has introduced the GBS



## VIPER SCREENING AND CRUSHING BUCKETS

Ajutech Oy is a Finland based clean technology company specialising in developing and manufacturing Viper branded screening and crushing buckets. These have been developed to provide screening and crushing solutions for professional demolition, recycling and waste companies.

Vipermetal's screening buckets are now available for excavators, wheel loaders and skid steers in the 2t – 50t range. Unique 3D screening technology has been utilized producing enhanced productivity and screening quality. The screening buckets are designed to be used for top soil screening, padding, mixing as well waste materials handling. The buckets are made of 100% wear steel for strength and durability. This eliminates dead weight with them being typically 20% lighter than conventional screening buckets.

New rotating crushing technology is applied to all Vipermetal's patented crushing buckets, delivering exceptionally high crushing capacity and being able to process steel bars and mixed demolition materials easily.

**[www.vipermetal.fi](http://www.vipermetal.fi)**



## ALLU HELPS BELGIAN PIGS GET A TREAT

Waste from food production is a continuing problem throughout the western world. One Belgian pig farmer however has come up with a novel way of recycling waste material from a local candy manufacturer, thereby ensuring that waste at the factory is minimized, and at the same time give his pigs a treat.

Pig farmer, Bart Van Bouvel, has used an Allu DSH-4-23 Transformer to make waste candy into a food source. The large farm has over 7,000 pigs and Bart recently agreed to take 100m<sup>3</sup> each week of waste candy. The problem was that the candy is packed tightly for shipping, and this meant that it was difficult to break down into a size that would allow it to be fed to the pigs.

The candy farmer however knew of the Allu Transformer range and realized that it would be the perfect solution in order to reduce the candy waste to a usable -20mm feed product. In order to put his theory to the test, Allu Germany arranged a demonstration of what they believed was the most suitable Transformer.

Bart Van Bouvel is now using an Allu DSH-4-23-TS 16mm Transformer fitted to a Cat 930 G excavator. This particular model was chosen as it provides greater capacity, with the TS 16mm axe blades proving to be ideal for the reduction of soft and sticky materials such as candy.

Transforming materials into something valuable is what makes Allu stand apart. As the case of the Belgian pig farmer shows, the use of the Transformer range is not limited to soil, concrete, muck and other related materials, but can also be used in new and previously un-thought of ways.





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Displacement	74 cm <sup>3</sup>
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Blade diameter	300 / 350 mm
Dry weight excl blade	9.9 / 10.1 kg
Max. cutting depth	100 / 125 mm

[husqvarnacp.com](https://husqvarnacp.com)





## NEW MODEL AND FEATURES FROM ECOMECA

2017 saw Finnish crushing and screening bucket manufacturer Ecomeca increase its staff, including appointing a new sales director, Jari Mattila. The company also added customers and countries to its distribution channel, with new dealers being appointed in many parts of the world.

Ecomeca also released a new model, the 177, which is the smallest crusher in its range of attachments designed for 20t excavators, with the model number signifying its one drum has a volume of 770l. The attachment is also of a comparatively lightweight of 3080kg, with the excavator hydraulic requirements being 220litres/m and 300bar.

A series of new features for its attachments will also be launched in 2018 including wear resistant hard metal studs. These have been tested since late 2017, with the results being promising. Through using these studs the maintenance interval may be extended by up to three times when compared to hard facing drum discs. When testing is complete, this new development will also be available on all of Ecomeca's new and older models.

[www.ecomeca.fi](http://www.ecomeca.fi)



## SIMEX CBE 50 BRINGS SUCCESS IN RUSSIA

The city of Litkarino, located 40km outside Moscow, is undergoing an urban regeneration which matches that of Moscow. This has seen the demolition of buildings including that of a day care centre. Here a Simex CBE 50 crusher bucket has been put to work crushing different types of materials.

### A problem solver

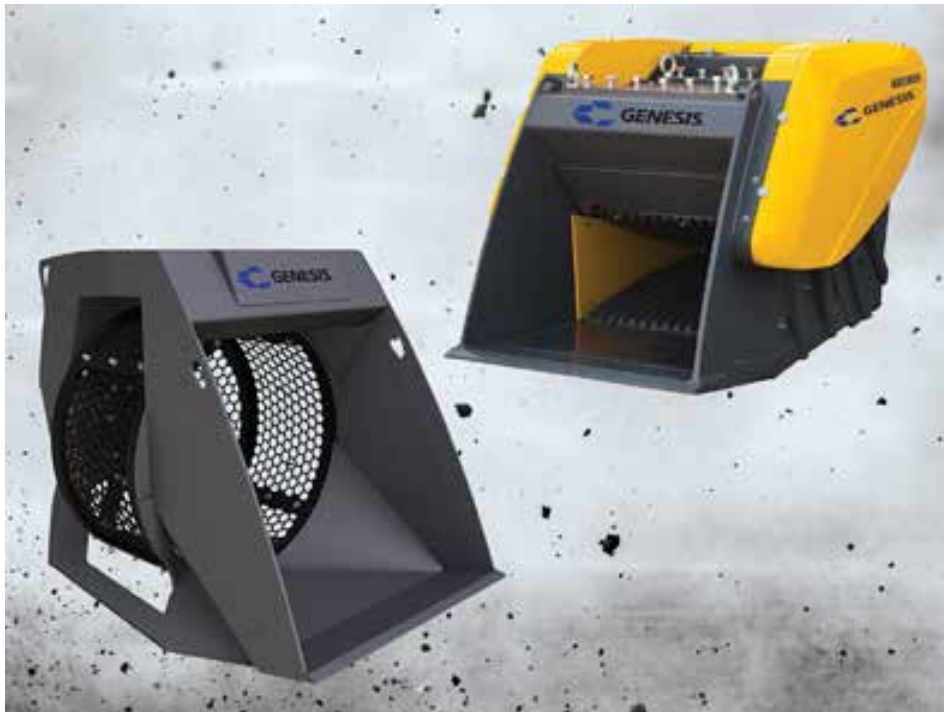
The demolition required the primary crushing of debris be carried out in situ, but without resorting to a large mobile crusher due also to space restrictions. The job required a dual approach: to reduce the debris, including material such as brick and large blocks of reinforced concrete, to sizes that would allow them to be reused; and a system that would be able to crush wood. The latter being a material known to be challenge for any type of attachment not specifically designed for the application.

After evaluating numerous solutions, the contractor chose a Simex CBE 50 crusher bucket. What specifically convinced the contractors was the strong construction of the frame and the attachment's low operating cost. Additionally and unlike traditional jaw crushers, the Simex system allows any type of material to be crushed, including wood.

### Crushing workhorse

The Simex CBE 50 has been designed for excavators with a weight of 38t to 55t. It has a cutting force at the tooth of 190kN and is equipped with a rotor fitted with teeth. The system is activated by hydraulic piston motors in direct drive for a system not relying on reduction gears. With a capacity of 1.8m³ and a wide mouth that allows for easy loading, the bucket is capable of producing material with an output size between 0-80mm and 0-140mm.

For the teeth, Simex opted for KenCast™ technology from Kennametal, which offers exceptional duration and resistance to wear. The Simex CBE 50 is able to crush material at a rate of up to 70m³ per hour.



bucket screener and GBC bucket crusher. These have been designed with industry leading features that reduce material delivery and removal costs.

The bucket screener, GBS, provides a mobile and cost effective solution for sizing natural rock and recycling material on site quickly, and efficiently, while occupying minimal space. Its extra-large drum results in higher production, with individual replacement screens available in a range of standard mesh sizes, as well as custom sizes for pre-screening and final classification.

The maintenance free, oversized, heavy duty gear-box provides reliable and durable job site operation.

Available in five models, the GBS fits skid steers to medium sized excavators.

Unlike conventional crushers, the GBC possesses a unique, aggressive 'figure of eight' crushing motion that produces a high quality cubical product, enabling the aggregate to be reused on site. Extra-large jaw plates provide optimal performance and longer life.

The GBC has been built for durability with a large and robust casted jaw stock and Hardox frame. Available in four sizes to fit 10 to 35t excavators, the GBC's replaceable cheek plates, toggle seat and centralized lubrication system minimize maintenance.

[www.genesisattachments.com](http://www.genesisattachments.com)

# STRONG FOCUS ON FLOOR PREP AT UK'S CONCRETE SHOW 2018

The UK Concrete Show will be held for the 8th time at the Birmingham National Exhibition Centre (NEC), 21 and 22 March 2018.

According to the organisers, Concrete Times Magazine, the UK Concrete Show, UKCS, is the only UK event that is totally dedicated to the concrete industry, and is Europe's number one specialist trade show to be held in 2018.

## Interest in terms of floor prep and polishing

The 2017 exhibition continued the UKCS success story with more visitors, more new and returning exhibitors, and year on year, more business done. UKCS 2018 will build on this success, and will repeat the exciting new features that were so well received at UKCS 2017. These include a live BIM for a concrete interactive visitor experience, a technical advice clinic and live demonstrations.

For PDi Magazine, the overall focus of the show is perhaps not of general interest, but UKCS features

a special focus on diamond tools, concrete floor grinding and polishing equipment. A large number of the magazine's advertisers are manufacturers of this kind of equipment, and will be exhibiting at this year's event. Given this interest, PDi will have a bonus circulation issue with the show being covered editorially.

This year's event will see UKCS moving slightly in the calendar in order that the show will no longer clash with school half term holidays. The organisers also hope the show will benefit from better weather conditions.

The UK Concrete Show has also moved halls - 17 and 18 at the NEC - in order to accommodate increased numbers of exhibitors and visitors. Car parking will also be more conveniently located a short walk away. In addition to the exhibitions in the halls, there will also be a limited outdoor demonstration area, perfect for companies to show their equipment working.

<https://concreteshow.co.uk>

## The UK Concrete Show 2018 Exhibitor List

Addex Group  
Altrad Belle  
Blastrac Uk  
Everdigm  
Fls-Floor Levelling Systems  
Herbst Software  
Hte Floor Systems  
Husqvarna Uk  
Hycontrol  
Hyps Engineering  
Ibix Srl  
Igoe International  
Klindex Srl  
Korodur International GmbH  
Masterscreed  
Mbk Maschinenbau GmbH  
Mps Concrete Solutions  
Multiquip (UK)  
National Flooring Equipment  
Preptec Equipment Services  
Putzmeister  
Pwm (Sales)  
Scanmaskin Sweden Ab  
Siltbuster  
Somero  
Spe International  
Superabrasive  
Trimaco  
Wuhan Wanbang Laser Diamond Tools Co.  
Zipwall GmbH



**WORLD SERIES BY**

**SCANMASKIN**

Scanmaskin has introduced the World Series which is a completely new line of high quality floor grinders, industrial vacuums and diamond tools. The development focus of this premium line of equipment has been on providing benefit to the operator, with an emphasis on service, quality and reliability. "The development of World Series has been based on current market demand and industry trends from customers all around the world. We combine this input from our user base along with Swedish engineering," says Scanmaskin Sweden AB technical manager Martin Persson.

The first piece of equipment from the World Series released is the Scanmaskin 32, which is a floor grinder with a range of high quality features making it the a modern and fast grinder. The floor grinder possesses a highly

efficient operation which minimizes grinding hours by 10%. The machine also features cast alloy components along with a floating shroud, which has been designed for many years of durability and dust free operation.

Additionally, the Scanmaskin 32 has been built with ease of service very much in mind. Its smart design means that only three screw sets need to be released in order to gain access to the machine house. "This machine gives the operator the greatest time gains, both in terms of efficiency and service life. This is grinding in the fast lane," adds Martin Persson.

World Series by Scanmaskin was launched at World of Concrete in Las Vegas with the Scanmaskin 32 becoming a popular exhibit for the many visitors to the company's stand.







VIDEO



# DYNASET HPW-DUST

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AIR COMPRESSORS  
BIN WASHING SYSTEM  
POWER BOOSTERS  
POWER TAKE-OFF  
VIBRAS  
ETC.



STAND 4 E 032



By the end of 2017, the construction project had required Stutz to drill more than 1,200 concrete holes.



President of the Stutz AG supervisory board, Alfred Müller.



## Flexible concrete drilling and cutting

Since late autumn of 2016, a new production facility is undergoing construction at the Sulgen site of Swiss food manufacturer Hochdorf Nutrition AG. The project's extremely ambitious schedule covers an extensive range of work, including locating the construction site in the midst of the existing infrastructure. This has required high degrees of flexibility and professionalism from the contractors, Stutz AG.

In addition to the major construction work, eastern Switzerland's leading construction firm, was also contracted to cut the concrete for 20 doors between the old and new buildings, and to drill 25 large holes in ceilings up to 600mm thick. To do this, Stutz put its trust in the quality and reliability of Tyrolit.

### From 25 planned large holes to over 1,200 holes

During the assembly of the Sulgen facility, a large number of holes and a substantial amount of concrete cutting were added to the initially planned tasks. Marcel Mussoi, head of Stutz's building protection, concrete drilling and sawing division, noted the increased requirements: "So far we have drilled over 1,200 holes (diameters from 60mm to 300 mm) and over 20 doors without the slightest damage to the new, high quality production equipment."

However, the vast amount of concrete drilling and cutting required is just one of the challenges of the project. In addition to the work on the new building, drilling and sawing was also necessary in the existing

premises. "Our workers actually attended a hygiene course at the Hochdorf Company, and also wore the necessary clothing, of course. Apart from these special conditions, the deadlines for the individual work operations were very tight, so we had to organise ourselves on site quickly and flexibly," emphasises Mussoi.

### A strong partner

Marcel Mussoi ascribes the fast and uncomplicated progress of the work to his company's flexible employees, and to the support received from Tyrolit, which has supplied concrete drilling and sawing equipment. In fact, Stutz has relied on Tyrolit's systems, products and special solutions since 2000. "It's (Tyrolit) products offer impressively simple handling and reliability. The range of machines and tools from one source enables us to get on with orders very quickly. This is Tyrolit's trump card, and I rate it very highly," asserts Marcel Mussoi.

Mussoi has also been impressed with the service and the range of solutions for special applications, for example with the drilling of large holes. Here Stutz made use of the hydraulic dual drill rig; a special design developed by Tyrolit for facilitating the drilling of large holes which has enabled the work to be completed as efficiently and quickly as possible.

### An industry with a future

The importance to Stutz AG of this extensive project is obvious from the fact that president of the supervisory board, Alfred Müller, paid a visit to the construction

site. He wanted to gain a first-hand impression, and commented on how the industry is developing: "We will actively pursue the possibilities of mechanical and controlled concrete demolition, and continue to invest in this field in the future. Thanks to the technological potential for development here, we have reasons to believe in the growth of this sector."

[www.tyrolit.com](http://www.tyrolit.com)



The dual drill rig greatly facilitated the work of drilling large holes..



## PROFESSIONAL FLOOR SAWS



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**1970**

SIMA is created by Antonio García, upon his invention of the first 45° ceramic tiles cutter.



**1981**

SIMA enters the Rebar Process markets.



PYLITIN is created as a subsidiary to laser cut, bend and paint the metal parts of SIMA machines.



**1998**



**1979**

SIMA launches what is considered to be the first wet cutting table saw in Spain, named... **EVA**.



**1995**

SIMA begins its international expansion, starting by the mediterranean countries, and Latin America.



**2007**

SIMA premises reach their current size of 27.000 m².

The Conjet Robot 557 is being used to remove the top layer of the concrete floor in the underwater tunnel.

# CONJET ROBOT

plays its part renovating Europe's first sunken-tube tunnel

Over time, working stresses and humidity have taken their toll on the Maastunnel. Some years ago, tunnel experts discovered that the concrete structure of the tunnel had decayed. Added to this, in 2019 the Maastunnel must comply with the latest EU laws and regulation for safety in tunnels. This led to a complete tunnel renovation being planned as the best solution to meet modern requirements of tunnel safety and efficiency.

On 3 July 2017, the large scale renovation and restoration of the Maastunnel began. The job was performed in two parts: initially the southbound side was closed for renovation while the northbound side remained open. This was done in order so as not to limit traffic congestion in the Rotterdam city centre, as well as not to affect emergency and rescue services.

The full scale renovation of both northbound and southbound sides of the tunnel will take around two years. The works will include concrete replacement, new signal and ventilation systems. As the underwater tunnel construction and architecture possess historical significance, much of the old infrastructure, such as the huge, spectacular cast iron ventilation system, will also be restored and preserved as city monuments.

## Hydrodemolition challenge

One major assignment of the project is to renovate the 1m thick concrete floor of the tunnel, which lies 1.5m below the roadway. The top layer, with a thickness between 120 and 150mm, has to be removed with hydrodemolition and replaced by new concrete, with the existing rebar also being preserved.

The first stage of the hydrodemolition process started at the beginning of September 2017 and was finished 10 weeks later. In total, some 550m<sup>3</sup> of concrete has been removed from the 570m long and 6.8m wide concrete floor of the tunnel. As soon as the concrete

*The underwater Maastunnel in Rotterdam in the Netherlands was built using the sunken-tube or immersed-tube method and completed in 1942. This method of construction involved separate parts of the tunnel being built in a dry dock, and then floated into place and sunk into a trench dug in the river bottom. The Maastunnel was the world's first rectangular shaped underwater tunnel built in this way. After many years' service, the tunnel is undergoing badly needed renovation work, with a new Conjet Robot 557 being used to renovate the top layer of the concrete floor.*

top layer had been removed and the remaining rebar had been cleaned from rust, new concrete was immediately poured in place.

The concrete floor demolition of the tunnel floor was assigned to the Dutch concrete and renovation contractor, Hompert-Renes B.V. a specialist hydrodemolition



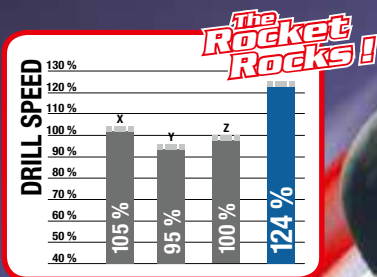
Much of the old infrastructure including the spectacular cast iron ventilation system, will be restored and preserved as city monuments.



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tion company. This method was chosen as the most viable and efficient demolition method due to the requirement for low levels of noise and dust emissions. Additionally, and in order to avoid cracks in the tunnel structure, the original rebar will automatically be cleaned from rust by the hydrodemolition process.

"When it comes to the actual hydrodemolition, the work is quite ordinary since we are just removing concrete from the floor using two standard hydrodemolition robots," says Jurjen Volmer, owner of his own hydrodemolition company, Volmer Industrial Services, which is a subcontractor to Hompert-Renes. Jurjen Volmer has four operators operating the two hydrodemolition robots (Conjet 557) 24hrs per day, Sundays to Thursdays. The remaining days are used for removal, cleaning and to refill the sections with new concrete.

"However, since this is a submerged tunnel in a river with a slurry bottom, we can't remove the concrete straight on from one side to the other. To safeguard the stability of the tunnel we have to do this in 94 sections, each section 6m long and 6.8m wide," says Jurjen Volmer. He continues: "We demolish and remove the concrete in one section, then move on 30m forward to do another one, going back and forth like that to the other side of the tunnel. The water pressure, at which the Conjet robot works, is 1000 bar and it uses 280l of water per minute."

While the actual demolition is quite simple with the standard Conjet 557 robot, the logistics of the operation are quite complicated. This is due to having to reach the 94 sections of the tunnel by specially constructed bridges, going forward and back again, and removing the demolished concrete out of the tunnel. Hydrodemolition has proven to be the best suited way of effectively

dealing with the tunnel renovation, and the use of the Conjet robot has certainly made the demolition parts quite straight forward.



**The logistics of the hydrodemolition operation is quite complicated since 94 sections of the tunnel have to be reached by temporary bridges.**



**Jurjen Volmer, owner of his own hydrodemolition company, Volmer Industrial Services, is a subcontractor to the principle contractor, Hompert-Renes B.V.**



**Hydrodemolition has been chosen as the most viable and efficient demolition method because of less noise and dust, and to avoid cracks in the tunnel structure whilst maintaining the original rebar.**

## DXR STRIKES GOLD IN COLOMBIA

In a remote part of Colombia, surrounded by muddy waters and dense, humid jungle, there is an area full of tunnels into the Earth. These tunnels are owned by Operadora Minera S.A.S. and it is in these that 3.5t of gold are hauled out of each year. With the help of dynamite, rails and large carts, three men work to load 3-4t of blasted material by hand into the carts, normally two per day. The blasted material is then processed further to find the gold within.

The tunnels at the mine require working in a 35° degree angle in a hot, humid environment. The constant lifting of heavy rock takes a toll on the workers over time. Therefore, they work in shifts and are on site for only three weeks at a time. This meant that Campo Elías Gómez Merchán, director general of Operadora Minera and his team looked for ways to increase worker safety, alleviate stress and increase the amount of material generated during a shift. After looking into various possible solutions, the use of electric demolition robots was considered.

Demolition robots can execute the manual digging and hauling tasks the workers were performing, thus moving the workers away from hazardous areas. The robot's compact size enables use in tight spaces, while its construction makes it able to traverse the landscape and withstand the hot, humid environment. The availability of different attachments enables the machine to switch between breaking loose rock from the sides of the tunnel walls and excavating the fallen rock. The electric power does not produce harmful emissions, keeping workers safer.

### Selecting a robot

Gómez Merchán contacted company Gonzalo Becerra which is jointly owned by DiamantBec located in Bogotá, Colombia in order to try out a Husqvarna DXR 270 demolition robot. After putting the robot through a rigorous test in the mine to see if it could withstand high heat, dealing with large loads of material that could stress a machine, as well as how well it maneuvered and ease of operation, Gómez Merchán and his team ultimately decided the Husqvarna DXR 270 demolition robot would be ideal for the job.

The DXR 270 is powerful, agile, easy to operate with Gómez Merchán being impressed by the level of service and support Husqvarna provided. After the robot was sent, Johan Ekström, Husqvarna Construction product manager, demolition robots Americas, followed.

### Training takes team work and skill

Ekström, following a long uncomfortable and arduous journey was joined by Husqvarna district manager Aleksandar Stankovic, and Mauricio Becerra Valbuena from DiamantBec, who served as translators and additional trainers. The training team taught the four operators basic operation and maintenance of the DXR 270. This was followed by instruction on how to perform the specific tasks the DXR would handle in the mine.

They were shown how to use the bucket attachment to dig, pick up and unload the material in carts at a 35° angle, as well as learning manoeuvring and balancing the

machine at different levels. To ensure the four operators were well trained, Gómez Merchán asked Ekström to develop a practice plan for them and to come back in 4 to 5 weeks to evaluate the operators.

When Ekström returned in March, along with Becerra Valbuena from Diamant Bec, the four operators passed their practice plan evaluation, and it was now time to apply their new skills in the mine. Ekström accompanied the four men into the mine and fine-tuned the operator's performance on their specific tasks. By the end of the training week, the DXR and operators were accomplishing in two hours what it took the three man team to manually load during a 12 hour shift. Needless to say, everyone was pleased with the result with the DXR being able to increase the mine's efficiency as well as increase worker safety.

**[www.husqvarnacp.com](http://www.husqvarnacp.com)**





## Blastrac launches MAJOR NEW PRODUCTS

Blastrac has released a series of new dust collectors and other equipment. The new dust collector series is aimed at exceeding users' expectations, with their M-class and H-class certified, Longopac bagging system, being perfect for small or large jobsites.

### Five new powerful dust collectors

The BDC-1133 dust collector is an M/H-class dust collector designed to deal with hazardous materials and is TRGS519 certified for safe asbestos removal. It is equipped with a permanent reverse air pulse filter cleaning system, high suction performance, and sealed airflow delivering increased productivity. As well as standard features, it is available with accessories including flow sensor warning, storage solutions, etc. The dust collector has a dual filter solution in H-class machines (3-stage filtration) with the power outlet having automatic stop-start for electric power tools.

The new BDC-122 dust collector is M-class certified with a new generation of M-class filters. It has a manual hand shaker, and is equipped with 2 motors and an Ø50mm inlet. Of a compact size, it is also equipped with a Longopac bagging system for a safe working environment.

The new BDC 122HC dust collector is H-class certified to EN 60335-2-69 Annex AA. It is equipped with a new generation of M-class filter and a secondary H14 HEPA filter. It comes complete with a manual

hand shaker on top, two motors and an Ø50mm inlet, and a Longopac bagging system for a safe working environment, making it ideal for working with hazardous materials such as asbestos.

Another new dust collector is the BDC-133MUD which is M-class certified and equipped with a new generation of M-class filters. A manual hand shaker is located on its side, with the model providing high suction power (3 motors) and an Ø70mm inlet. It is also equipped with an 'up and down' system for easy transportation and a Longopac bagging system for a safe working environment.

The final new dust collector is the DC-133HCUD which is H-class certified according to EN 60335-2-69 Annex AA. It is equipped with a new generation of M-class filters and secondary H14 HEPA filter. Other features are the same as with the BDC-133MUD.

### 'Ride-on' floor grinder

The new 'Bull' BMG-2200 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 at the back, the machine is very manoeuvrable both on and off jobsites. It is both effective and ergonomic to operate, with the operator sitting in comfort on a seat with armrests on both sides, along with joysticks, push buttons and a touch screen.

The three powerful BMG-780PRO grinding heads produces maximum coverage and effective distribution of grinding pressure on each individual head. This means each grinding head may be operated individually. 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. It is further equipped with an automatic pulse filter cleaning system, Longopac system and is provided as standard with a pre-separator.

### BB-700E burnisher

Purpose developed for burnishing and polishing concrete floors, the BB-700E is designed for polished concrete installations. It is equipped with an ergonomically comfortable handle in order to reduce operator fatigue, being ideal for large jobs such as airports, malls, hotels and schools. It may also be connected to a dust collector to work in a dust free environment.

### Magnetic Broom

The final new product launched by Blastrac is a magnetic broom developed to collect steel shot and any other metal particles left on the floor, such as nails, screws and so forth. Of a light weight construction, the machine has been designed to be both user friendly and requires little if no maintenance.





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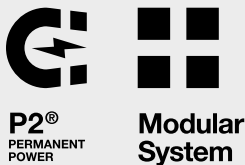
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# NO HOLES BARRED

***With modern concrete coring equipment, the sky is the limit for specialist contractors. No matter what a drilling task might be - a heavily reinforced foundation slab, a thick brick wall or a reactor vessel at a nuclear power plant - there is no shortage of machinery for professional users to choose from. PDi's Andrei Bushmarin presents a round-up of the latest news in the core drilling industry.***

## Core drilling is "EZ" with the latest US Saws solution

The Core-EZ, developed and manufactured by North America based US Saws, is a new and revolutionary way to core drill in confined spaces and hard to reach areas. Similar in weight and size to a conventional hand held core drill, the Core-EZ is attached to the surface on a single guidepost, which supports the weight of the rig



ensuring a perfectly straight hole. The entire system weighs less than 22kg, and fits into a compact carrying case for easy transportation.

Available in 120V, 220V and 36V cordless versions, the Core-EZ is capable of drilling holes between 76mm



and 254mm in diameter. It comes as standard with core bits measuring 304mm in length, but extensions are available to drill deeper. Recent improvements have given the Core-EZ the ability to drill through softer materials such as brick and block at almost any angle through mounting it on to a swivelling guidepost. According to the manufacturer, the Core-EZ has become the preferred system for many professional drillers when tackling specialty projects where traditional rigs often fail.

[www.ussaws.com](http://www.ussaws.com)

## Norton Clipper adds three new rigs for pipe drilling

Norton Clipper has added the CDP ROBO 300, 350 and 350 electric to its core drilling portfolio. The new rigs have been specifically designed to allow drilling directly into concrete pipes. The frame of the machine fits around the dimensions of the pipe providing the operator with stability during use. The compact and lightweight petrol and electric machines enable the use of drills of up to 350mm in diameter featuring a 31.75mm (1¼") connection. Both the Norton Clipper CDP ROBO 300 and 350 sets include the motor, the motor frame, the exhaust fumes hose (for the petrol motor), the fixing strap and stake to give the machine stability in operation.

A 10l water tank and accompanying tools, provide operators with a complete solution, whereas its heavy duty frame provides stability even when working in a trench. The machines are easy to set up using a column





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swing with predefined 45° and 90° positions. For best results, the manufacturer recommends combining the CDP ROBO systems with Norton Clipper Pro CB Beton Robo core bits. These come with an adapted length and are suitable for concrete, reinforced concrete and iron pipes. Currently the new machines and drill bits are only available in Europe.

[www.nortonabrasives.com](http://www.nortonabrasives.com)



### Baier Tools expands dry coring range

Germany based Baier Tools has expanded its dry coring range with the introduction of the BDB 829 model. A development on the BDB 825 which accommodated core bits measuring up to 200mm in diameter, the new system can handle up to 250mm bits. With a powerful 2.2kW motor and a rugged two speed gearbox, the BDB 829 has enough torque to dry drill efficiently through heavily reinforced concrete and any kind of

natural stone. Coming complete with a high capacity vacuum cleaner, the in house 'soft impact' system and titanium diamond core bits, the Baier dry drilling machines are a great choice on job sites where the use of water is off limits.

[www.baier-tools.com](http://www.baier-tools.com)

### Hilti unveils new water management system

In 2017, Lichtenstein-based trendsetter in diamond drilling techniques Hilti unveiled its latest water management system DD-WMS 100. This has proved to be an essential addition to the Hilti wet drilling range, with the WMS 100 having three operation modes: recycling, vacuum cleaning and water supply. In the recycling mode, water is routed to the drilling tool with simultaneous slurry collection. Water can then be recycled up to seven times which equals to some 100l – more than enough for a full days drilling work – with all the operator having to do is fill up the 14l tank and insert the filter bag. The vacuum cleaning mode prevents slurry from spreading around the job site, and the multilayer filtration bag, means that the recycled water is clean enough not to cause any damage to the diamond core bits. The WMS system comes complete with a set of water collection rings.

[www.hilti.com](http://www.hilti.com)

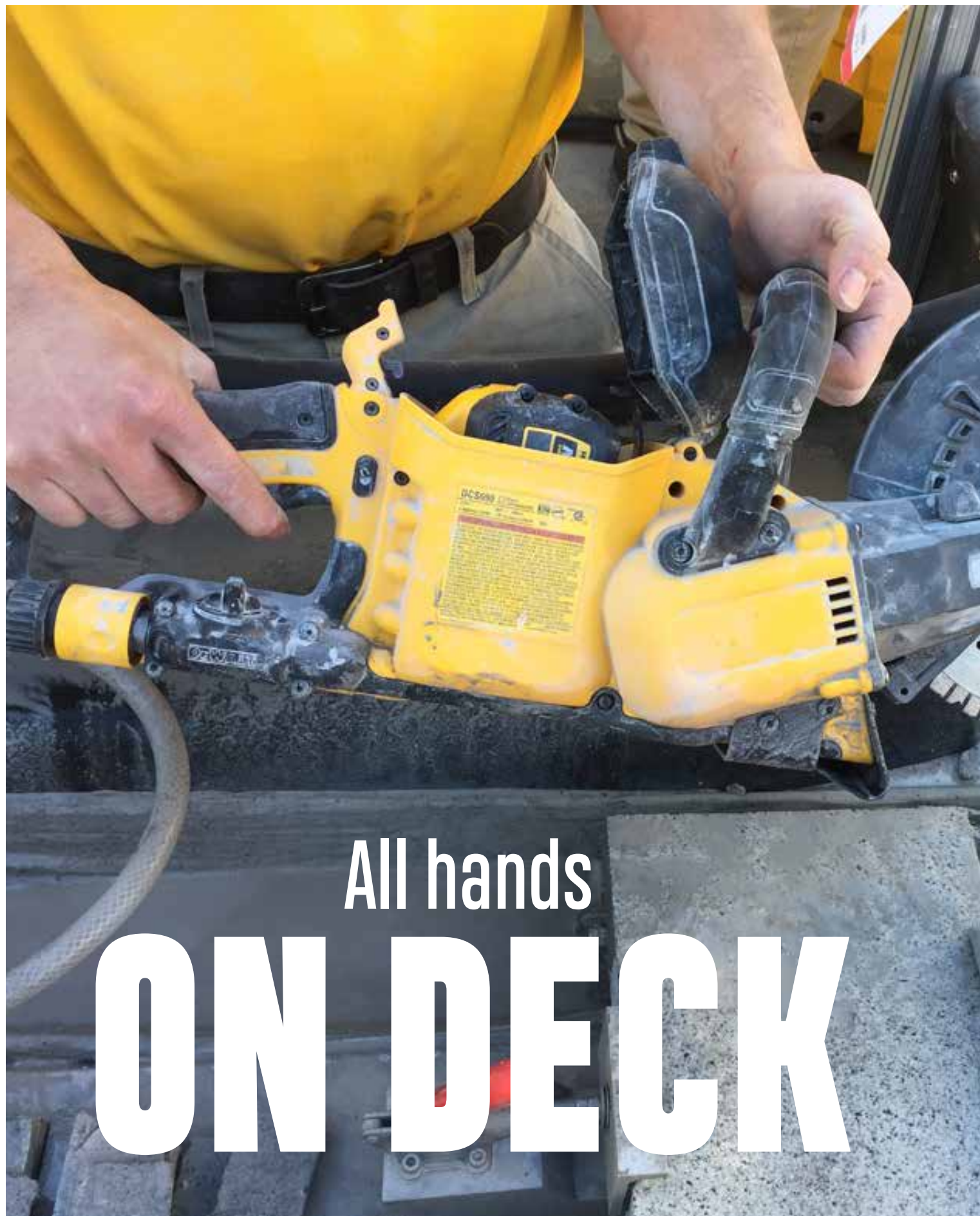


### Dust suppression solution from down under

Following four years of design and development, Australia based Makinex has launched the Hose 2 Go – a constant pressure water supply unit aimed at the hire and rental industry. The Hose 2 Go enables users to suppress dust when cutting, core drilling or grinding concrete. The highlight of this solution is the ability to provide a constant water flow without the use of a pump, battery or electronics. With an integrated handle with two carrying positions, the Hose 2 Go is very easy to transport, with its 14l capacity enabling up to 30 minutes of constant flowing water.

[www.makinex.com.au](http://www.makinex.com.au)





# All hands **ON DECK**





***Big equipment may get the headlines at trade shows like World of Concrete, but it's the smaller, hand held tools that are most likely to make an immediate impact on a concrete contractor's performance. They can be used most anywhere there's a power source, and require no special training to use, even for the new hire on his or her first day on the job.***

As you'll see in this edition of PDi's annual report, tools using brushless motors abound. This helps tools last longer with less maintenance, and can provide more power within the same space as their brushed DC predecessors. Also 'routine' for most products are improved ergonomics that won't leave users with reminders of the day's hard work long after quitting time.

#### **Hilti TE 2000-AVR demolition hammer**

Weighing 15kg, Hilti's highly versatile TE 2000-AVR demolition hammer is a blend of power, ergonomics and weight. At 35J of impact energy, delivers 1,800 impacts per minute. With a t-handle design plus exceptionally low vibration, it allows for efficient performance and maximum working comfort. This means that the TE 2000-AVR can handle floor demolition applications for base materials as thick as 203mm, and perform tile removal and ground rod driving applications.

The TE 2000-AVR utilizes a brushless SR motor which eliminates the need for regular replacement of carbon brushes. Tool electronics help ensure consistent performance in multiple power scenarios for the TE 2000-AVR, whether operating directly from a wall outlet or via a 30m 12 gauge extension cord.

When used with the TE DRS-B and a Hilti vacuum, the TE 2000-AVR is Table 1 compliant with OSHA 1926.1153.

[www.hilti.com](http://www.hilti.com)

#### **DeWalt cordless and corded hammer options offer jobsite versatility**

DeWalt launched its new line of large SDS Max combination and demolition hammers including its Flexvolt® 60V Max brushless 46.4mm model DCH733. This hammer

possesses comprehensive protection features such the innovative E-Clutch® system, and a bind up control that increases user control by sensing a stall during use which manages torque accordingly. The DCH733 achieves 13.3J and 350 rev/m for fast and efficient drilling even in hard concrete.

Other large SDS Max hammers also include the corded 46.4mm D25733K and 50.8mm D25773K, which provide 13.3J and 19.4 respectively. Both feature a brush service indicator light, trigger lock on (chipping only), ergonomic rear handle with soft grip, low vibration side handle, and SDS Max tool holder. The D25733K has an optimised drilling range of 19mm to 44mm, while the D25773K has an optimised drilling range of 21mm to 46.4mm.

New corded demolition hammers include the 8.6kg D25872K and 10kg D25892 chipping hammers. Each features a large, comfortable trigger, service indicator and includes constant speed control. All of the new hammers feature a variable speed dial, constant speed control.

#### **Also from DeWalt, a new 60V Max cut off saw**

DeWalt's 228.6mm 60V Max DCS690 cut off saw enables use without gas. The DCS690 is capable of 82.5mm depth of cut and features a brushless motor that achieves 6,500 rev/m. This

allows for fast and efficient single pass cuts, and scores in concrete and steel, as well as pavers and rebar. With a rotatable, five position guard, the user can select the approach angle that provides optimal visibility and accessibility when cutting in tight spaces. With features including an all metal drivetrain, the saw is





durable and efficient. It is also protected from harsh jobsite conditions through its latched battery box and sealed on / off switch.

In addition, the DCS690 features a dual sided water delivery system that offers an OSHA Table 1 complaint solution for dust management when cutting concrete. Featuring a front handle that can be held in three positions, the saw can be used to cut in both horizontal and vertical positions.

[www.dewalt.com](http://www.dewalt.com)

#### **Makita 18V LXT brushless hammer driver drill**

Makita has released a new 18V LXT® lithium-Ion brushless 12.7mm hammer driver-drill, model XPH07M. Delivering a full 123J of torque, the XPH07M is powered by the new Makita 18V LXT Lithium-Ion 4.0Ah battery. Makita's efficient BL™ brushless motor is electronically controlled to optimise battery energy use for up to 50% longer run time per charge. Electronic controls efficiently use battery energy to match torque and rev/m to meet the changing demands of the application for increased power and speed when needed. As there are no carbon brushes, the XPH07M's brushless motor runs cooler and more efficiently.

[www.makitatools.com](http://www.makitatools.com)

#### **Bosch cordless rotary hammers match efficiency and performance**

The Bosch GBH18V-20 19mm SDS-plus® rotary hammer produces 5,850 bpm, but weighs only 2.6kg. This provides toughness to get the job done, but not at the expense of user fatigue it delivers 1.8J of torque in a tool with three modes for drilling, hammer drilling and chiselling. Its efficient DC motor is easy to maintain with long lasting carbon brushes, while a LED work light is included for working in dark areas.

Bosch's GBH18V-26 25.4mm rotary hammer delivers 2.6J of torque in a 3.5kg tool with an ergonomic L-shape design offering horizontal power transmission. With a Bosch 6.0 Ah Lithium-ion battery, the power tool is said to drill longer and hit harder than bigger tools with more weight. Bosch electronic precision control ensures 70% soft start to help avoid walking or skating. It also features a proprietary 'kick-back' control and a bi-integrated acceleration sensor that virtually stops the

drill's rotation during bit bind up situations, potentially reducing arm and wrist injuries. In addition, the tool includes Bosch's vibration control for added user safety and ease of use.

Both new hammers utilise the Bosch 'flexible power system', said to be one of the most versatile lithium-ion battery platforms available. The system offers complete compatibility by allowing 18V 'FatPack' and 'SlimPack' batteries to be used with any tool. Bosch 18V 2.0Ah and larger batteries also feature 'CoolPack' technology, which offers a heat conductive housing to keep batteries cooler for superior runtime and up to double the life. All Bosch batteries provide cold weather performance to -20°C.

[www.boschtools.com](http://www.boschtools.com)

#### **Skilsaw introduces 13A reciprocating saw with Buzzkill™ technology**

Skilsaw has entered the linear cutting market with a 13A reciprocating saw with patented Buzzkill™ technology. This is a full frame counterbalance that suppresses vibration up to 35% when compared with comparable competing models. That provides comfortable, controlled cuts that won't wear out the user or the saw. Skilsaw's linear system also simplifies the counterbalance to maintain vibration control with fewer wear points. The reduced vibration makes the tool more durable, increasing its lifespan and providing greater comfort for the user.

Skilsaw has also developed the patented single wobble drive train, which reduces friction to slow down heat build-up for a longer tool life. In addition, the 13A reciprocating saw features a unique clock spring brush system. The constant spring is designed for durability and optimal motor performance as the saw pushes through the cut, regardless of heat or dust flow. In addition, Skilsaw offers a 15A heavy duty reciprocating saw, also with its Buzzkill™ technology.

[www.skilsaw.com](http://www.skilsaw.com)







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#### Hitachi's H45MEY demolition hammer

The H45MEY demolition hammer with AC brushless motor combines performance and comfort. Delivering 13.4J of impact energy with a full load maximum impact rate of 1,430-2,850 bpm, the hammer's user vibration protection (UVP) technology can reduce down time and vibration related injury via the use of internal counterweights and springs. A variable lock mechanism in neutral position allows for 12 different angle positions for optimal working angle options

Aluminium housing construction significantly enhances the internal and external durability of the tool. Externally, the metal body construction is more resistant to harsh working conditions than its plastic counterparts. Internally, incorporating a plastic stator holder around the brushless motor, provides an internal double insulation construction that can protect the user from an electric shock. During use, the metal construction keeps the internal gears secure and aligned preventing wear and power loss. Additionally, the metal body dissipates heat better, increasing overall motor life.

#### Also from Hitachi, the CM75EBP gas cut off saw

The CM75EBP 355.6mm gas cut off saw has been developed for construction and renovation jobs that require concrete cutting for small openings. Portable at 10.6kg and easy to use, this handheld machine is made



#### Lackmond's BCR130/5BG drill

U.S. manufacturer Lackmond has teamed up with B+BTec of the Netherlands to create the BCR 130/5BG handheld core drill. At 7.5kg and with a powerful 1.9kW motor, the drill's three speed gearing provides excellent drilling performance with core bit range of 9.5mm to 130mm, and no-load speeds of up to 4,290 rev/min. With an optional dry drilling kit, the BCR 130/5BG can provide continuous alternating dry or wet drilling. Other features include an LED motor overload indicator, a water level that aids in keeping the machine level, a 3600 auxiliary handle, and a backward facing water valve to prevent damage.

[www.lackmond.com](http://www.lackmond.com)

#### Hand held air saws from U.S. Saws

U.S. Saws' hand held air powered saws are environmentally friendly and safe alternatives to traditional gas powered saws designed for cutting concrete and asphalt. By using a pneumatic power source, the saws eliminate



dangerous exhaust pollutants and require less maintenance. The dry cutting saws also eliminate the need for messy slurry clean ups. Three models of air saws are available, all of which weigh 11.3kg. The HS-100 and HS-125 both use 355.6mm blades for a maximum cutting depth of 127mm. The HS-150 can handle 457mm blades for cutting up to 178mm deep. An optional dolly converts the saw to a walk behind model.

[www.ussaws.com](http://www.ussaws.com)

#### Metabo UHEV 2860-2 combination hammer offering compact versatility

With a single blow energy of 3.4J at up to 4,500 bpm, the four function UHEV 2860-2 is designed for hammer drilling, drilling without impact in two speeds, and chiselling using 28mm bits. The drill's ergonomics possess a centre of gravity located near the hand, and an optimised handle contour. A cable protecting ball joint provides freedom of motion when working, while an automatic safety clutch decouples the drive for safe working should the drill stop unexpectedly.

Other features include a long lasting aluminium alloy housing, quick change facility between SDS plus hammer chuck, and keyless chuck for drilling in wood and metal. Specialised electronics allow for working with materials requiring customised speeds, which remain constant under load.

[www.metabo.com](http://www.metabo.com)

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# NEW GPR equipment from America



*In the yearly PDi feature concerning new ground penetrating radar technology (GPR) for demolition applications, we focus on two new products from the American manufacturer Geophysical Survey Systems, Inc (GSSI). PDi's editor Mikael Karlsson reports.*

GSSI, located in Nashua, New Hampshire, has unveiled its new StructureScan™ Mini LT. This is the latest member of GSSI's popular all in one concrete inspection GPR system. It possesses all the capabilities of previous versions of the StructureScan Mini, with the new StructureScan Mini LT being more affordable.

Rugged, compact, and flexible, StructureScan Mini LT is ideal for locating rebar, conduits, post tension cables, and voids. It may also help identify structural elements, including pan deck and concrete cover, providing real time determination of concrete slab thickness. Backed by a two year warranty, these features make StructureScan Mini LT perfect as an entry level concrete inspection system.

The integrated all in one concrete inspection tool comes with an antenna, positioning system, and control unit combination. It features an easy to use interface with six button control options. With its 1.6GHz antenna, the StructureScan Mini LT offers superior target resolution, reaching depths of 500mm.

Featuring a rugged and compact design, StructureScan Mini LT is IP65 rated to withstand tough jobsite conditions. Users are provided with excellent data visualisation through a high resolution user friendly interface 154mm full colour display, and different operation modes tailored for beginner to advanced use.

The StructureScan Mini LT enables easy customisation of the data display with a variety of colour adjustments. Real time migrated data, onscreen reference markers and multiple display modes are also available, with other useful features being an ergonomic handle, positioning lasers and 4 wheel drive.

## New drill hole feature

GSSI has also announced a new drill hole feature to the StructureScan™ Mini XT – the newest generation of GSSI's popular all in one concrete inspection GPR systems. The drill hole feature being a 3D data processing detection algorithm.

The algorithm evaluates a user chosen cylindrical area that represents a potential or planned concrete cor-

ing location. Scanning for all potential targets within the cylindrical area, the drill hole feature looks for targets that may interfere with a proposed coring location.

Available only within the StructureScan Mini XT user interface, it is able in complicated slab situations to utilise a drill hole feature in order to determine the safest location for coring concrete. However, this feature is not a substitute for careful analysis by a trained operator, and GSSI does not recommend that the user depend solely on this algorithm for drill hole interpretation.

GSSI recommends that operators should receive special training prior to using this new aid. During training, areas may be selected that are believed to be safe for coring while the feature is turned off, and turn the feature on to double check and confirm the initial mark outs.

The new drill hole feature will work with all StructureScan Mini XT's already in the field, only requiring a software update. New units will come with this user interface pre-installed.



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## Visibility, the key to safety

Ausa is proud to be one of the companies globally that is working to incorporate new safety elements and redesign vehicle parts that are most commonly affected, with the aim of ensuring full operational integrity. This will allow users to concentrate on their work and improve their productivity. From new technologies to the redesign of external parts, Ausa has continued to put the safety of its customers at the forefront of its development strategy.

One of the main innovations that the company, founded in 1956, has introduced is the 'Full Visibility System'. This is a safety system that provides two cameras with infrared night-vision and eight proximity sensors. It uses technology from the automotive sector, whereby the TFT screen in the driving area provides the operator with total vision of surroundings, enabling constant awareness of elements both in front and to the rear of the vehicle. This system is available for the whole range of dumpers with capacities from 2.5t.

Ausa now has an R&D team of 30 people who work on machine designs, focusing on the safety of the operator and the surrounding area. This has led to

equipment hoppers of the company's dumpers being designed to ensure high visibility from the operator's position, as well as possessing exceptional design of the counterweight. The latter provides the machine with greater stability under full load and with a gradability of up to 70%.

For Ausa telescopic handlers, visibility is the key element of the distinct design. Work has been undertaken to advance the cab position as far forward as possible, providing the operator with 360° vision. The telescopic arm has been installed in a side position, which permits a more spacious cab, with total width remaining compact. The driving area is spacious and ergonomic, designed to provide a high level of comfort when operating the machine.

With the avowed aim of becoming the world leaders in the market niches in which it operates, Ausa has worked to innovate and contribute in the areas of efficiency, performance and safety, with the latter being the main focus of effort and attention of its entire workforce.

[www.ausa.com](http://www.ausa.com)



## NEW ERA FOR STEEL PIPE CUTTING FROM MOTOCUT

The MotoCut pile cutter cuts concrete piles and now steel piles and pipes quickly, safely, easily and without compromising on quality. A world first, this self-contained mobile plasma cutter excavator attachment brings significant benefits for the construction and demolition industries. Further aiding usability, the pile cutters can be installed onto an excavator, making it possible to use the plasma cutter as a mobile version, which has the benefit of being able to remove waste while working.

The self-contained, fully automated unit is able to operate with any 13-20t hydraulic excavator with a hammer line and tiltrotator being operated solely by the excavator driver, with no additional labour being required. In addition, the cutting process is fully computer controlled, which means that the productivity and quality is much higher compared to standard cutting methods.

[www.motocut.fi](http://www.motocut.fi)

## Aquajet celebrating 30 years with new releases

In 2018, Aquajet celebrates its thirtieth birthday, which is being celebrated as part of its 'Hydrodemolition days' in April this year. At the company's popular event in Sweden, Aquajet will unveil several ground breaking products which will strengthen its position as the market leading provider of safe and sustainable hydrodemolition equipment.

The story of Aquajet Systems began as a hydrodemolition contracting company in Sweden with Aquajet developing a reputation as a leading innovation and technology friendly company. Over the years, Aquajet has manufactured some of the industry's most advanced, versatile and sustainable hydrodemolition products. The Aqua Cutter 410A, the Aqua Cutter 710V, Power Pack Ecosilence and the sustainable water treatment system, EcoClear, are a few examples of products that have changed hydrodemolition since their introduction.

Since 1988 Aquajet has refined and redefined its and the industries hydrodemolition technology many times. Such technical innovations include 'Evolution Control System', 'Equal Distance System' and 'Intelligent Sensing Control'. Today, Aquajet possesses a portfolio of unique and patented solutions.

The thirtieth anniversary of Aquajet will last throughout the year, but the celebration itself will be marked officially during the Hydrodemolition days in April at Aquajet's headquarters in Sweden. Hundreds of guests from around the world will be invited to the celebrations and some introduced to some special treats, as Aquajet will introduce a series of new products aimed at of safe, sustainable and efficient hydrodemolition.

The specifics about the new products are to be announced during the spring. "At this point my lips are sealed, but I can assure every last one of our customers that our new products will be something special. We are introducing ground breaking products to deliver even better performance and productivity. It is advanced technology that will make the operation faster, safer and easier than ever before," says Roger Simonsson.

[www.aquajet.se](http://www.aquajet.se)

## Dates announced for BAUMA-CONEXPO INDIA

The dates for the fifth bauma-Conexpo India have been announced. The show will be held from the 11 to 14 December 2018 at the Huda grounds in Gurgaon/Delhi. Like its most famous associates, the show is an international trade fair for construction machinery, building material machines, mining machines and construction vehicles.

The popularity of bauma-Conexpo India reflects the growth in the Indian market for construction and associated equipment. "We expect this good development on the Indian market to be reflected in the next event." CEO of bC Expo India, Bhupinder Singh, stated. Exhibitors present at the last show support Bhupinder Singh's views. "We find that this is the best opportunity for Indian companies to show the international community what facilities India has." Vice president of Invest India, Payal Koul Mirakhr, explained.

Prospective exhibitors interested in the event can register now at: [www.bcindia.com](http://www.bcindia.com).



**Kaj Koskela - Vice President for breakers at Sandvik Mining & Rock Technology.**



# RAMMER BREAKS

## THE 40 YEAR MILESTONE

**Forty years ago, a first series of hydraulic hammers called Rammer hit the market. The tools turned out to be such a success that the name Rammer soon became a byword for premium-class breakers. To celebrate Rammer's anniversary in style, Europe-based Sandvik that owns the brand since 1998 has lined up a bouquet of events throughout the year. Kaj Koskela - Vice President for breakers at Sandvik Mining & Rock Technology - shared the company's latest news and celebratory plans with Andrei Bushmarin.**

### The Rammer year

**Andrei Bushmarin:** This year Rammer turns 40, which makes it one of the longest existing brands in the global demolition attachments market. How do you plan on celebrating this milestone?

**Kaj Koskela:** As a matter of fact, we have planned a string of events throughout the year to mark the anniversary. The first one, scheduled for early March, will see the handover of the 3,000th pedestal mounted breaker boom to a customer. Very handy in mining applications, the boom ensures the optimum position of a breaker during the process of rock crushing, which results in increased productivity. This is a core business area for Sandvik, and we are regularly updating our range with new models. The ceremonial handover will take place at Sandvik's flagship manufacturing facility in Lahti. Later on in April, there will be a gala party for the staff at the Sibelius Hall - one of the most prestigious venues in Lahti. Then last but not least, there will be a four day dealer meeting in Helsinki. Slated for June, it will welcome over 100 visitors from all over the world.

### Here comes the big one

**Andrei Bushmarin:** Last year Sandvik used the Conexpo trade show in Las Vegas to unveil its largest Rammer hammer so far. Can you tell our readers a few words about this particular model?

**Kaj Koskela:** Yes, last year at Conexpo we launched a 7t hammer designed for mining and large scale demolition jobs. Currently the biggest in our line-up, the new 9033 model fits carriers ranging in operating weight from 60t to 120t, and boasts all the trademark features of a classic Rammer hammer. These include a heavy duty durable housing, dust, noise and vibration suppression systems, Ramvalve and idle blow protector.

### Trends and tendencies

**Andrei Bushmarin:** Being a recognised industry trailblazer, what trends are you observing in demolition and recycling?



**Breaker booms are a core business area for Sandvik. In early March, the 3,000th pedestal-mounted breaker boom will be handed over to a customer.**

**Kaj Koskela:** One of the most noticeable trends, which in part prompted the development of the 9033, is the ever increasing size and power of carrier machines. Today specialist contractors prefer their machines to be big and powerful, capable of performing a very wide range of tasks. This often entails using a bigger tool on a daily basis, hence a growing demand for large size attachments. Fuel consumption and labour costs remain major concerns, forcing users to look for high performing and reliable work tools. Another emerging trend we are witnessing is onsite recycling. Whereas in the past recycling of debris was done at a different place, often far away from the actual demolition site, the current best practices stipulate the recycling be done right on the site.

### Market outlook

**Andrei Bushmarin:** Forty years down the road Rammer is a globally recognised trademark. Which markets perform best for Rammer at the moment?

**Kaj Koskela:** Historically, Rammer has always been and remains strong in Northern Europe. Sales are on the rise in Western Europe as well, particularly in the UK. England has proved to be a world centre of demolition activities in the recent years, and the Rammer brand is very much appreciated there. Business has been steadily growing in North America where Rammer attachments are sold through Ohio based Allied Construction Products in which Sandvik has owned a stake since 2003.

### A thousand hours without an accident

**Andrei Bushmarin:** Rammer breakers are manufactured here in Lahti. Today I was given a comprehensive tour of the 11,000m<sup>2</sup> facility and was impressed with what I saw. The manufacturing process looks very streamlined and highly automated.

**Kaj Koskela:** That is correct, but most importantly the plant is very safe. Safety is a number one priority for us. We have recently crossed a thousand hour threshold of zero accident operation, and we are very proud of this achievement. With a workforce of just 80 people, the factory can produce up to 10,000 breakers annually. There are not too many attachment facilities in the world that can rival our capabilities.

### More than just breakers

**Andrei Bushmarin:** Are there any new products in the pipeline?

**Kaj Koskela:** Of course. Product development never stops at Sandvik. A new smaller breaker is already under development. We are also planning to give a facelift to some of the range's existing models in the near future. However, as you well know, the Rammer brand is not just about breakers. Our line-up includes all types of attachments for demolition and recycling applications, and last year it was expanded once again to include new models of cutter crushers, scrap shears, grapples, and static and rotating pulverisers.

**Andrei Bushmarin:** Many thanks Kai Koskela for your time.

[www.rammer.com](http://www.rammer.com)



**With a workforce of just 80 people, the factory can produce up to 10,000 breakers annually.**





## BEST WAY FOR A QUICK AUTO-CONNECT

***It is time once again for the annual PDi feature on fully automatic quick coupling systems for demolition excavators. It has been relatively quiet on the manufacturer front, with little to report, with one rather large, exception, Steelwrist. Jan Hermansson reports.***

Over the last decade or so, every professional excavator operator has learnt that fully automatic quick coupling hydraulic systems are now a powerful and competitive asset in the demolition and recycling industry. As the demands for increased safety, efficiency and improved material separation in the workplace have become more prominent, the need to change tools more often has also increased. This has correspondingly increased the demands placed on demolition and recycling equipment, especially in 'heavier' applications.

### Four well known systems

Today, modern operators strive to get in-and-out of the excavator as little as possible to change tools. When there is a real need, the break in work needs to be as short as possible, with little oil spill, and with a small risk as possible of injury to anyone. Ultimately, this needs to be accomplished with as much efficiency and flexibility as possible.

Historically, in the demolition and recycling context, four automatic quick coupling systems have dominated the market: Likufix, VarioLock, OilQuick and EC-Oil. The Likufix system is owned by Liebherr, and is strong in German speaking markets, with a strong link to operators of Liebherr excavators. Lehnhoff, cur-

rently owned by Komatsu, manufactures VarioLock. OilQuick is a particularly well known system, being a particularly appreciated quick coupler system among heavy demolition contractors, especially in Europe, with a focus on the northern part of England. Engcon, as with OilQuick, is a Swedish manufacturer, and has developed EC-Oil. This is being used by demolition contractors increasingly in Nordic countries, but OilQuick's more advanced system, dominates the market.

What generally differentiates the fully automatic quick couplings is the design which effectively divides the four manufacturers into two groups. This is most clearly apparent in the locking mechanism itself for when the quick coupling closes and the connections are being protected. Likufix and VarioLock's 'female sides' of the connection are exposed horizontally, while the OilQuick and EC-Oil's 'female sides' in the coupling are vertically exposed. The vertical locking function has proved preferable as it more efficiently prevents dust and harmful particles getting into the sensitive parts of the system.

### Steelwrist's fully automatic SQ mountings and Qplus

A new development was seen in 2017 which shock-up



**The Steelwrist automatic quick coupler SQ70 with Qplus.**

the market. A new Swedish manufacturer appeared, Steelwrist, with a new automatic quick coupling system, which also possesses a vertical locking function which better protects the sensitive connection area. Steelwrist itself is not a new company, and has manufactured and sold a series of tiltrotators, quick hitches and mechanical and hydraulic attachments since 2005. Its new quick coupling system is called the SQ, and offers quick and safe tool replacements in just a few seconds directly from



the cab. Initially the products were launched solely to the Swedish market, but success has seen the range now available internationally.

PDi's editor had the privilege of recently meeting the company's founder and chief executive, Stefan Stockhaus, and the company's market coordinator Sofia Danielsson, at Steelwrist's plant in Sollentuna, north of Stockholm.

In April 2017, Steelwrist launched its SQ series consisting of automatic quick couplings, tiltrotators and gates, which was followed in the autumn of 2017 with the launch of the Qplus switching technology. Both the SQ Series and Qplus are fully compatible with OilQuick's OQ hitches.

In order to make operation as efficient and easy as possible for contractor and operators, Qplus maximises oil flow, prolongs operating time and enables easier service when compared to alternative solutions. Steelwrist automatic oil coupling brackets follow the internationally expanding symmetrical standard, and possess a wedge lock system to ISO 13031: 2016. In addition to complying with ISO 13031: 2016, Steelwrist brackets and tiltrotators also include the patented 'Front Pin Lock' technology, which increases operator safety through ensuring that the attachment is not 'lost'.

### New, smart and easy business focussed solution

The tool attachment market has been traditionally, and still is close, limiting choice. Depending on which standard system contractors in different countries choose, the user is bound to that standard without many alternatives. With its new SQ series and Qplus, Steelwrist has sought to simplify this for the contractor by making its system compatible with OilQuick. However, when a similar name as OilQuick was chosen, namely OQ, this was not warmly welcomed.

"Our intention was to make it easy for the customers to know which products are compatible with each other, and to build an international standard for automatic oil connections. This proved to be very sensitive to OilQuick AB's management, who chose to apply for trademark registration of OQ the day after our product launch. We therefore chose to change product designations to Steelwrist SQ. We have received a great



**The new Qplus system includes a new sealing method that makes sealing exchange easy, increases oilflow which increases operational time.**



## Wessex demolition choose lehnhoff

After a visit to the Lehnhoff factory in Germany, Wessex Demolition chose to invest, and are delighted to be enjoying the benefits. Having tested other makes of quickcoupler available on the UK market for an extended amount of time, the company opted for the Lehnhoff Variolock System supplied by Worsley Plant.

One of their first projects with the new system involved the demolition of a former college in Slough, to make way for a new development of much needed housing stock. The two storey steel framed building dated back from the 1970s. The building was vacated with many of the fixtures and fittings remaining inside with the Wessex team having to sort and recycle as much as possible before any structural demolition could take place.

The Slough site was home to a pair of excavators sporting the Lehnhoff system including one of the company's latest Volvo EC250EL excavators and the first machine to have the system fitted, a Doosan DX300LC.

Site Manager for the project, Paul Beaumont explained that the Doosan fitted with the Lehnhoff system had been on site for a few days and had made an instant impact on the speed at which the project has moved forward.

"The tried and tested system is very good. We are always using the correct tools for the job now, no more making do. We must save at least half a day per week with not having to use the older, non hydraulic couplers."

The heavy duty design of the unit has impressed Wessex Demolition's Contracts Manager, Ashley Grant. "One of the benefits is the metric to metric couplings on the unit, there is no downsizing to imperial dimensions meaning the flow of hydraulic oil is always at its optimum levels. The build quality is second to none with a pair of integrated lifting hooks on the unit meaning we are able to undertake any lifting duties safely."

To meet current safety guidelines, the Lehnhoff units have a bright green indicator pin fitted above the front jaws allowing the operator to have a visual indication of whether the attachment is secure or not. To provide a positive and rattle free connection the rear locking pins have a tapered top edge allowing a tight grip to the attachment and are always under pressure to ensure the attachment stays connected at all times. The VL250 units are fitted with five valve ports to allow a wide variety of attachments to be utilised. Two – 25mm, two – 12mm and a single 20mm port are all positively connected to the valve block situated on the attachment and allow a leak free and reliable connection at all times. The larger ports allow the oil to flow at a lower temperature giving greater fuel savings over other hitches.

The lack of trailing hoses is another plus point for Wessex. Both the cost in repair and downtime, will be massively reduced with the new system, but also the environmental benefit of not having leaking fittings or burst hoses will help the company.

Both units were being put to good use swapping quickly from bucket, to hammer, to sorting grab. Another benefit of the Lehnhoff system is the large scope for compatibility across weight ranges. The units are capable of using attachments normally run on 20 to 40 tonne excavators which means that a smaller fleet of attachments are now needed, resulting in lower purchasing costs.

The way in which the Lehnhoff system has altered the operational methods is clear to see with the operator now very quickly changing tools over to allow material to be moved, broken and sorted in a far more effective and productive manner.

[www.worsleyplant.co.uk](http://www.worsleyplant.co.uk)

reception since the product launch and for us, the name is not important, since we believe that customers already understand that Steelwrist SQ is fully compatible with OilQuick OQ," says Stefan Stockhaus.

Steelwrist did have an alternative solution to not making a compatible system, but this was rejected. "The world does not need a new connection system. Instead the excavator owner needs a cost effective standardised solution for easy replacement of work tools. Now, we focused on making the product even better while maintaining compatibility," says Stockhaus.

What is even more interesting is what Steelwrist has accomplished with the Qplus inside couplings'. Since initial production of the series began, the connections have been further developed so that flow capacity has been substantially increased. Depending on the coupling size, the flow area has been increased by up to 37%, whilst a completely new sealing method has also been introduced. In addition to improved oil flow, the customer also benefits through increases in operational time, as the time required between sealing changes has increased. Essentially, the change is now much easier and

**Steelwrist founder and President, Stefan Stockhaus.**



faster than previously, and without the need for special tools. "We are now building up production capacity further to meet demand, and Qplus is standard in all SQ deliveries since November, 2017," says Stockhaus.

Today, Steelwrist's fully automated quick couplers include SQ auto connect systems in two models; SQ60-5 for 12-20t excavators, and SQ70 for excavators between 18-33t. In the pipeline is the launch of the next size, SQ80 for excavators between 25-43t. "It is in this segment that our automated quick couplings become really interesting for the demolition and recycling market," says Stockhaus.

The investment in a fully automated quick coupling system for a demolition or recycling contractor results in a significant increase in both efficiency and safety in the workplace. It is also considerably more environmentally friendly, as any oil spill is radically decreased. The amount of sorting at the worksite can be increased through the easy use of several types of attachments. For the contractor however, the first thought is cost.

The pricing levels of the existing systems vary in terms of function and price. It is probably a truism that for many years manufacturers have not invested in developing or simplifying their solutions, or in making them more cost efficient. Steelwrist approached this head on and, with its new fully automated quick coupling system and Qplus, has delivered a solution with a significantly lower purchase price in comparison to the big selling OilQuick. Additionally it possesses a higher degree of simplicity in order to replace, for example, seals without recourse to special tools.

In PD*i* 2-2017, a full presentation of Steelwrist will be published. Steelwrist will be exhibiting its latest developments and sharing its news at Intermat in Paris. [www.steelwrist.com](http://www.steelwrist.com)



## Kinshofer acquires Doherty

Another interesting development worth mentioning is that German manufacturer Kinshofer has acquired New Zealand Doherty Engineered Attachments. Kinshofer provides a wide range of tools for a variety of industries, including demolition. The acquisition of Doherty, which manufactures and sells various types of fasteners, quick couplings and tiltrotators, provides an excellent fit with the Kinshofer Group.

[www.kinshofer.com](http://www.kinshofer.com)  
[www.dohertydirect.net](http://www.dohertydirect.net)

## Arden Tilt from Arden Equipment

Arden Equipment has launched its Arden Tilt to provide increased flexibility for its customers. Arden Tilt is compatible with the Quick Arden (QA) quick coupler for excavators between 0.8-32t and the Uni Arden (UA) quick coupler for 8-11t excavators. With Arden Tilt, tools may be tilted up to 180°, and its rotation system has a simple mechanism with a central axle and an annular piston. The technology uses moving splines that enables it to convert the motion of the piston into a rotational motion, which allows the shaft to increase. With less equipment in the workplace, the contractor can increase the versatility of any excavator with the ability to tilt buckets and other attachments. Arden will exhibit its latest developments at Intermat in April.

[www.arden-equipment.com](http://www.arden-equipment.com)



## Two interesting sidebars from Lehnhoff

Lehnhoff has not provided news of any developments for this year's special feature. On the other hand, it has announced that the manufacturer's quick release system, VarioLock, has achieved a great deal of success in many European markets, including the UK. We are pleased to publish two interesting short reports that we added as so-called sidebars. Lehnhoff's products can be found on the Komatsu's stand at Intermat.

[www.lehnhoff.de](http://www.lehnhoff.de)



## Pete marquis invests in lehnhoff

Pete Marquis Contractors are based in Preston, Lancashire and carry out Civil Engineering and Demolition Projects across the North West. Starting out in 1991 with two staff Pete has expanded the company and they currently own 35 excavators ranging from 1.5 to 65 tons.

Pete decided to invest in Lehnhoff Variolock Fully Automatic Quick Coupler Systems for their 20t excavators, which they predominantly use on their demolition projects. He was aware of other quick couplers on the UK market, but after looking at Lehnhoff he decided it was the best way forward.

The initial investment was a big consideration but he could see the future benefits would far outweigh this. Six months in, we visited Pete in Blackpool where he was on site demolishing an old TVR car factory. Here we saw the Lehnhoff in action and gave us an update of his views of Lehnhoff. Now, he can safely state that the Lehnhoff systems will have paid for themselves within 18 months.

To put this into perspective he explains his reasoning. If he is using three labourers and one machine driver on a job, it costs £25 to swap an attachment over from a selector grab to a shear. On average this means £25 in down time. If the driver swaps four times a day, this gives a saving of £12,000 a year. The system will definitely be paid back within 18 months.

Moving forward, Pete says that all his new excavators will be fitted with Lehnhoff. He estimates this to be six a year. Aside from the monetary savings, investing in Lehnhoff brings a raft of other benefits. Changing quickly between tools means they can use the right tools for the job. Often to save time, demolition drivers use the wrong tools rather than spend 30 minutes changing tools. With Lehnhoff its simple – just 15 seconds to changeover tools from the safety of the cab.

Pete said:

"This means no more bent selector grabs trying to dig out footings. No more broken teeth on buckets by trying to break concrete slabs instead of using a pecker. It's simple – 15 seconds! No more oil wastage. No more broken fittings. No more broken pipes. It's fantastic!

The drivers are more appreciate the system too. There is no risk to Heath and Safety. They love it. We will always use Lehnhoff in future."

[www.worsleyplant.co.uk](http://www.worsleyplant.co.uk)





## ENVIRONMENTALLY FRIENDLY subsea cutting from recognised specialists

The seabed of the world's oceans are littered with human made infrastructure: oil and gas pipelines, anchor chains and a lot more. However, nothing lasts forever, so when something is no longer in operation, it needs to be removed. The location and composition of the material makes simple 'garbage removal' impossible, so the need for specialist professional services, with specially developed machines and tools, has never been greater.

Worldwide, there are few companies that are able to offer the right combination of technology and the expertise to undertake highly demanding underwater cutting jobs. One of these expert companies is Norway based 1Diamond AS, owned by American company Quanta Services. Together with the Austrian wire saw manufacturer Tyrolit, they have set new standards for submarine wire cutting technology. Both companies are considered to be specialists in their respective fields, and

work together closely in order to develop highly efficient, environmentally friendly cutting tools that are able to meet growing requirements.

### Specialist expertise

1Diamond itself manufactures cutting machines with cutting capacities from 150 to 1550mm (6 to 62 inches) operational at a maximum depth of 3,000m (10,000 ft.). On request, the company is also able to design and build larger machines for special applications.

Tyrolit is now considered to be one of the leading manufacturers of bonded grinding, cut-off, sawing, drilling and dressing tools. It is also a supplier of tool and machine systems for the construction industry, delivering diamond wires for demanding and complex underwater applications. The company provides a broad range of electroplated saw wires and endless wire loops for steel

that excel at fast cutting performance, providing very long lifetime with noticeable smooth running. Continuous product development from the company ensures constant improvement in diamond wire technology.

### Shallow and deep

Due a tangible record of success, a great deal of interest has been generated in the 1Diamond machines in the construction industry. This is due to many areas in the world facing challenges such as removing pillars or pipes from harbour basins or quaysides, and an increasing requirement for decommissioning nuclear plants. However, 1Diamond and Tyrolit are not just deep sea specialists as recent developments have shown with shallow water versions of the existing machinery having now been developed for operating depths of 15 to 20m.

The shallower depth means that the equipment is actually easier to operate from the shore, with 1Diamond and Tyrolit now manufacturing machinery for these shallow water applications. Tyrolit's drive system has been proven to be especially useful, with the principle of modularity enabling customers who already own the main components able to combine it with additional equipment, thus further aiding highly efficient working and cost efficiency.

[www.tyrolit.com](http://www.tyrolit.com)



# POWERFUL & FAST

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# 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!





## Sima HandSafe wood saw recognised with InterMat Safety Award

Spanish manufacturer Sima has developed a hard won reputation within the concrete cutting industry for its various types of equipment and diamond tools for concrete cutting. Now Granada based Sima has launched a new wood cutting saw that protects its operator, with the development being awarded the InterMat Safety Award.

A wood cutting saw can be a dangerous machine to operate or be around; its tungsten carbide blade rotates at 2,700rpm which presents a danger to anyone who gets too close. This danger is all too real with many accidents being reported globally each year. This in effect means that these machines are subject to very stringent safety regulations, being equipped with multiple security measures, such as plastic pushers, a cover on the blade, etc.

Despite the safety measures, the vast majority of accidents with wood cutting machines occur due to operator negligence due to removing the always bothersome cover of the blade, or using both hands to push the wood into the blade cutting edge, instead of using the plastic pushers. This explains why most of the accidents happen to experienced workers, who have lost their fear of the machine and wish to work faster or more comfortably.

The new HandSafe wood saw from Sima goes a long way in improving operator safety as it protects the operator even in cases of negligence or distraction. One of the major innovations being that if the blade touches human skin it will stop in 4/100th of a second. Thus, the damage will be limited, being in most cases a cut requiring stitches. Of course, if a hand moves at full speed against the blade, even if the stop is practically immediate, serious damage will be inflicted, although always less serious than if machine does not stop.

This safety system also reduces the damage caused by accidents related to negligence or mishandling. The integrated ISS (Instant Stop Sensor) detects human flesh by measuring three parameters: skin moisture, resistance of the object in touch with the blade and conductivity.

All of these developments were acknowledged by the presentation of the InterMat Safety Award as a great step forward in preventing work place accidents in January of this year.

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## RUBBLE MASTER LAUNCHES TOOL APP FOR MOBILE CRUSHERS

Rubble Master developments presented at the recent Recycling Aktiv exhibition generated interest among visitors to the company's stand. The flagship RM 120GO! was shown in operation for the first time in combination with the new RM GO! SMART service tool. This is said to be the first app in its sector that integrates mobile end devices, such as smartphones and tablets, with mobile crushers, with the tool guiding the operator through optimisation of throughput and troubleshooting.

"Service has always been a key aspect of our company philosophy. The proven services such as the RM Academy, the 24/7 service hotline and RM lifetime support were extended in 2016 with the addition of the RM GO! SMART digital service

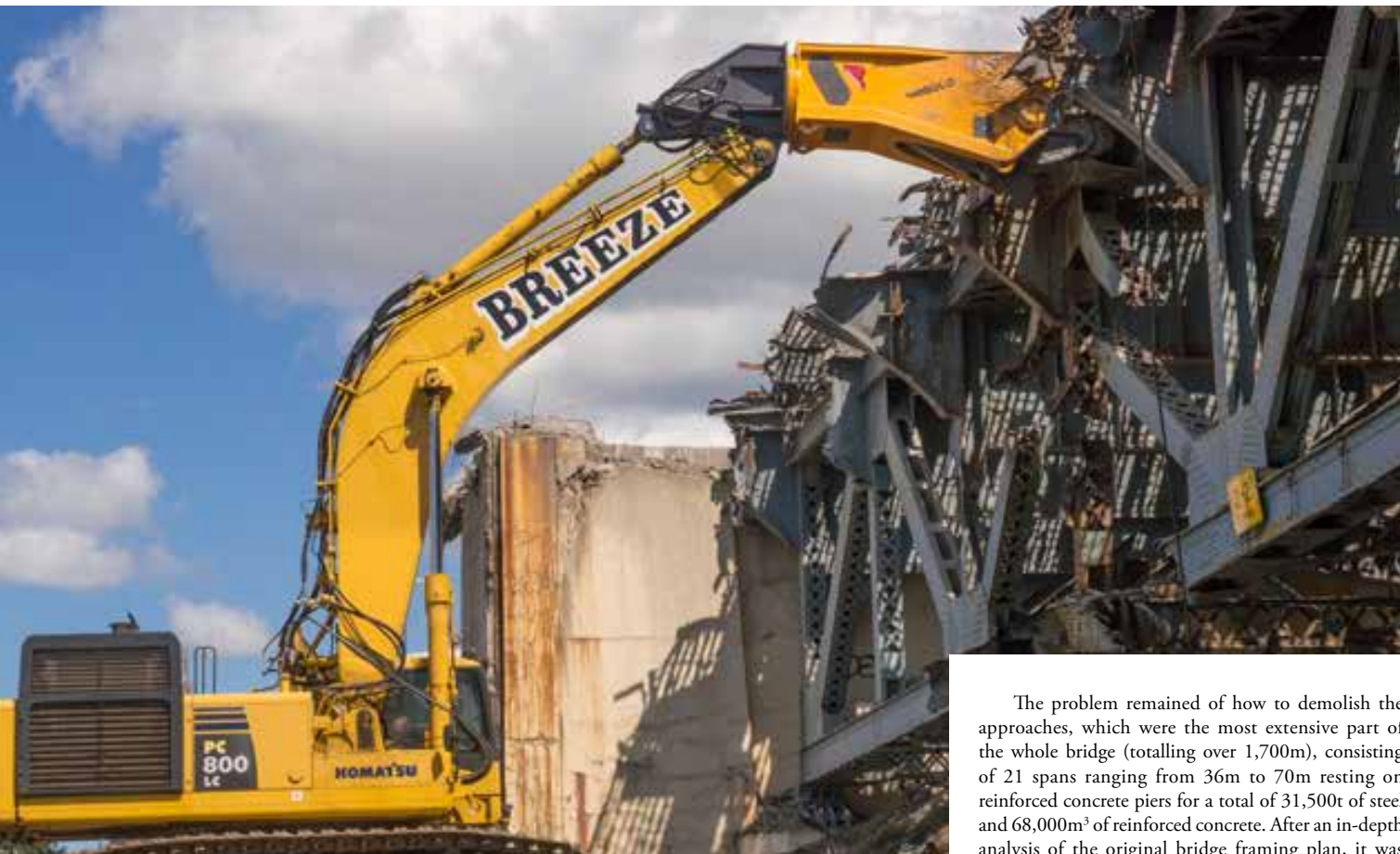
innovation," explains Gerald Hanisch, founder and CEO of Rubble Master. Visitors at Recycling Aktiv were able to see at first hand the benefits of the new fleet management tool, and the performance of the RM 120GO! for themselves in a demonstration of the RM 120GO! with integrated RM GO! SMART.

One of the reasons for the development of the app is that RM machines are often found working in the remotest parts of the world. The app resolves the problem of failed communication due to poor network coverage at the crusher job sites (such as found in mines or tunnels). RM GO! SMART is able to provide the right information at the right time, and above all at the right place. To avoid the problem of unstable internet connections the RM solution saves

data temporarily on the mobile end device and is thus available at all times.

Currently the five most important performance parameters of crusher performance are being evaluated and made available live. These values are compiled from over 200 linked data sets such as the power draw of the motor or the temperature of liquids. If a threshold value is exceeded it is reported immediately and independently by the crusher to the operator. It will soon be possible to use around 50 of these digital troubleshooting routines via the app. The plan for the future is to add further, more detailed analyses and optimisation possibilities with the help of additional service parameters.

[www.rubblemaster.com](http://www.rubblemaster.com)



# THE NEW ISS 45/90 makes the cut in New York

***An Indeco ISS 45/90 is cutting up the steel structure of the old Kosciuszko Bridge in one of the most important demolition jobs taking place in New York City.***

Opened in 1939, the Kosciuszko Bridge crossing Newtown Creek to link Green Point, Brooklyn, with Maspeth Queens, has been out of service since last April and is now undergoing demolition. Despite that it had been renovated in 1973, and again in 1996-97, the structure was constantly being monitored since the early 2000s. Following a decision to replace the 1,835m long bridge, in 2009 the New York State Dept. of Transportation (NYS-DOT) launched a plan for the construction of two new cable stayed bridges, while maintaining the original name of the bridge, to effectively improve traffic flow.

## **A complex demolition**

The contract for the construction of the first new bridge was awarded to a joint venture comprising of Skanska, Kiewit and ECCO III Enterprises, which finished building the first bridge last April. The JV was also assigned the demolition of the entire old bridge, which started last July when the main span (91.5m in length, 27m wide, 15.2m high and a weight of almost 2,268t) crossing Newtown Creek was first sectioned and then, after being lowered 38m via a strand jacking system,

set onto two barges for transport to a recycling facility where it would be demolished.

The problem remained of how to demolish the approaches, which were the most extensive part of the whole bridge (totalling over 1,700m), consisting of 21 spans ranging from 36m to 70m resting on reinforced concrete piers for a total of 31,500t of steel and 68,000m<sup>3</sup> of reinforced concrete. After an in-depth analysis of the original bridge framing plan, it was decided that the most efficient way to demolish the old structure was to perform cuts in key points, then use explosives to 'set it down' in a single blast to collapse all 21 spans onto a bed of dirt that would soften the impact.

Once down, the structure would be mechanically demolished (shears for the steel structures, hydraulic hammers for the piers in reinforced concrete). The JV subcontracted the demolition of the Kosciuszko Bridge to Breeze, one the major contractors in the New York City area specializing in demolition. Considering the size of the structure and the timeframe to complete the job (by year end), Breeze decided to make minimal use of flame-cutting, opting instead for shears mounted on an excavator. For this reason, the contractor purchased a brand new ISS 45/90 from Indeco to add to its fleet of demolition equipment. Demolition started with the first span on the Queens side, which was entirely





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demolished using shears. This was not collapsed to the ground using explosives, since the only access to the last exit to Brooklyn could not be blocked and because explosives would have induced stress to the successive spans, which had already been prepped with cuts and sectioning for later blasting.

#### A challenging demolition

The number of structural members of the bridge and their size called for powerful, hard wearing shears.



The web of some of the I-beams had a thickness of over 5mm, while the upper chords measured 34mm in height, 54mm in width, and were built with steel elements 32, 19, 16 and 13mm in thickness.

Breeze, a long time user of Indeco equipment (the company owns 22 hammers, 2 shears and 2 multi-grabs), bought the ISS 45/90 from Indeco dealer Alessi Equipment. The ISS 45/90 is made entirely of special extra strength Hardox, and due to a cylinder that can manage pressures up to 700 bar, the attachment has the structural strength and the power to take on virtually any type of job. The shears also feature a dual guide that keeps the jaws perfectly aligned and prevents buckling. The dual regeneration valve speeds up the movement of the jaw (accelerating opening and closing, thus improving productivity), while the V-Ripper RazorDual piercing design of both the upper and lower jaws improves cutting performance.

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In common with all other Indeco shears, the ISS 45/90 also boasts a very favourable weight-to-power ratio which improves the efficiency of the attachment. Breeze coupled the shears to a Komatsu PC 800 via an original Indeco special mounting bracket specifically adapted to fit the boom carrier. At times, the cutting process proved challenging due to the size of the structures. As known, when I-beams are cut, the shears first bend the web and flanges, doubling (and sometimes tripling) the thickness that is to be cut. Despite the sizes of the various members and the enormous amount of steel to be sectioned, the ISS 45/90 delivered top-notch performance.

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## More economic operation but same high **PERFORMANCE FROM KEESTRACK**

In its drive to reduce costs through the electrification of its track mounted crushers, Keestrack is currently concentrating on developing hybrid crushing technology. Following on from the fully hybrid H4 cone crushers and B4e jaw crushers, the company is now to introduce the R5e hybrid impact crusher. This has been designed to provide full capacity crushing with low fuel consumption costs through the use of a direct drive crusher and electrical transport and screen components.

The Keestrack R5 itself, on which the R5e is based, is a mid-range series of models weighing approximately 42t, which rises to 50t when fitted with an over band magnet and double-deck final screen (including oversize material recycler). Highly productive and fully mobile, the diesel-hydraulic crusher has proved itself on many applications throughout the world. Now, following a series of upgrades, Keestrack has launched the R5e, a diesel-electric version.

As with its larger R6e impact crusher model, the Keestrack R5e is driven directly by a 345 kW Volvo six

cylinder diesel engine (TAD 1373 VE; EU IV). The operating hydraulics powers all the lifting cylinders on the chassis and conveyor belts, the track drive, the vibrating discharge chute and double-deck primary screen as well as the compact double-deck post screen module with its oversize/stockpile conveyor. A 160 KVa generator now supplies the power to all other conveyor systems including the 5m<sup>3</sup> vibrating feeder and the new optional Neodym over belt magnets. On the basis of the anticipated higher mobility customers will demand of the unit, the R5e does not offer plug in network operation, but is able to operate the screens or stockpile conveyors via the 63A supply.

Field tests have shown a decrease in fuel consumption of up to 45% compared to diesel hydraulic models. Additionally the extensive reduction of complex hydraulic lines has resulted in lower cooling requirements, lower risks of leakage and lower maintenance demands during everyday operations.

[www.keestrack.com](http://www.keestrack.com)



## Success for **Lissmac in the US**

Lissmac USA is excited to report that the company have concluded another successful World of Concrete show. After Lissmac's first full year on the US market for construction machinery, the company's customer base has become familiar with Lissmac's quality and welcomed the opportunity of viewing Lissmac's machines in action at the company's 1,200 square foot booth.

One of the customer favorites was the high horsepower deep cutting and production hydraulic rider saw. Also, following new OSHA regulations, Lissmac's suction and vacuum units for slurry recycling were especially popular among the concrete cutting contractors.

Another highlight were Lissmac's portable electric floor cutters, which garnered much interest from small, medium and large size contractors alike. According to a Lissmac spokesman the customers especially appreciated the fact that the floor cutters can be powered by a mobile generator, and a flush-mount blade guard that allows for cutting directly along walls.

Lissmac USA would like to thank all visitors for stopping by their booth and taking the time to talk with them. Lissmac USA look forward to seeing their clients out in the field throughout the year, and again at next year's World of Concrete in January 2019.

[www.lissmac.com](http://www.lissmac.com)



## Case G-Series Wheel Loaders wins award

Case Construction Equipment has been recognised by the Good Design™ Award for the G-Series wheel loaders. This recognition comes in the 50th year of the prestigious awards.

The G-Series was one of the product designs selected by the Chicago Athenaeum: Museum of Architecture and Design, and The European Centre for Architecture Art Design and Urban Studies, out of the thousands of submissions from manufacturers

and industrial design companies. As a winner of the award, the Case G-Series is now part of the Museum's permanent design collection.

"We have been judged against the very best in the world, and the G-Series has emerged as a winner. This prestigious accolade crowns Case wheel loaders' long history of excellence as we prepare to celebrate this product line's 60th Anniversary next year," so said brand president for CNH Industrial's construc-

tion equipment businesses, Carl Gustaf Göransson.

Case places great emphasis on design and sees it as an important driver in the product development process in order to deliver superior operator comfort and intuitive operation. In its pursuit of quality design that combines style and function, the brand relies on the experience and resources of CNH Industrial's design centre. The Good Design™ Award is recognition of the high quality of the design resulting from the brand's focus.





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## Pre InterMat press conferences and Innovation awards ceremony

**From the 18 to 19 January the organisers of InterMat held a 'Pre InterMat' press event. This enabled show exhibitors to share new product information concerning developments to be released at the show in April. At the same event, an award ceremony was held for the InterMat award winners.**

About 80 exhibitors attended the press event, which was visited by representatives from over 100 trade publications from all over the world. On the evening of the first press day, a dinner was organised at Maison de la Mutualité, with the InterMat Innovations Awards Ceremony preceding the dinner. The well-known Belgium presenter Anne de Baetzelier hosted the awards and the dinner, with InterMat director Isabelle Alfano introducing the evening's events.

The awards ceremony began with the presentation of five special awards acknowledging the most up to

date developments in the construction industry. These consisted of:

**Digital Transition** – Awarded to EFA France for the first embedded voice control system with integrated database communication.

**Energy Transition** - Presented to Mecalac and its Mecalac e12, the world's first compact wheeled excavator running solely on electricity.

**Start-up by Eurovia** – Given to Matos for its Matos Connect paperless solution for operated equipment rental companies in the public works field.

**World of Concrete Europe Award** - Sika France received the award for its 3D concrete printing process which combines robotic innovation applied to the concrete industry.

**Safety** - Spanish manufacturer SIMA received the award for its HandSafe wood cutting saw which features a unique and exclusive safety system to instantaneously stop the blade the second that it touches human skin.

**International innovation in the spotlight**  
As well as the aforementioned, the 2018 InterMat

Innovation Awards were presented. These recognise innovation in construction equipment, machinery and processes used in construction and materials production. The 2018 awards highlighted several powerful market trends such as digitalisation, BIM and robotics, environmental solutions and the increasing importance of health, safety and risk prevention.

The judging panel chaired by Bruno Cavné, the chairman of the French Public Works Federation, comprised of 13 international experts representing users of the construction machinery which will be exhibited at InterMat 2018, and representatives from the public works, civil engineering, roads, buildings, equipment rental and concrete industries.

Eight winners were presented with their awards in four categories, with this reflecting the new organisation of the exhibition into four hubs of expertise.

**Earthmoving & Demolition** - Volvo CE and its EX2 model received the Equipment and Machinery Award. The Components and Accessories Award was given to the DMIC UBIWAN<sup>®</sup>SMART for its connected management solution for construction machinery and equipment.

**Roads, Minerals & Foundations** - The Equipment and Machinery Award was presented to the FAYAT TRX 100%, which is a mobile hot mix asphalt plant capable of reincorporating 100% of RAP in hot and warm mixes. The components and Accessories Award in this sector was given to EXO PUSH; an exoskeleton that assists the raker in manual asphalt levelling operations - the first "wearbot" to emerge in the public works field.

**Lifting, Handling & Transportation** - The Equipment and Machinery Award was given to Hinowa S.p.A. for the Lightlift 33.17 performance IIIS tracked aerial platform, with the Components and Accessories Award going to the Manitou Group for its machine stabilisation recognition system.

**Building & Concrete Sector** – The Equipment and Machinery Award was presented to Alphi for its Max-UpDown which assists with the handling of MaxiDalle formwork panels. The Components and Accessories Award went to 360SmartConnect which connects concrete by transforming concrete into an interface with data and services associated with the structure.

[www.intermat.fr](http://www.intermat.fr)



The presenter Anne de Baetzelier (left) and InterMat director Isabelle Alfano.





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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](http://www.hilti.co.uk)**







### IPS system takes hydraulic breaker performance to a new level

Epiroc has introduced a major development in hydraulic breaker technology, with many of its rig mounted heavy hydraulic breakers now featuring its patented 'Intelligent Protection System' (IPS). This 'world first', combines Epiroc's popular AutoControl and StartSelect functions, with the fully automated system providing a simpler, more efficient, and more economical operation.

AutoControl and StartSelect have been popular features on Epiroc hydraulic breakers for some years. AutoControl optimizes breaker performance by automatically adjusting the piston stroke length. The StartSelect system offers manual switching between two modes, AutoStart and AutoStop, which enables easy positioning at the beginning of the breaking cycle, and automatically stopping to avoid blank firing at the end of the breaking cycle.

#### IPS means no manual switching

These functions have now been combined in Epiroc's Intelligent Protection System (IPS). IPS ensures that the hydraulic breaker always starts in the AutoStart mode. When the contact pressure between the chisel and material increases, AutoControl switches operation from a short piston stroke to a long piston stroke, IPS then switches automatically to the AutoStop mode. When the chisel breaks through the material, the breaker automatically shuts off preventing blank firing.

#### Simpler, faster breaking

IPS makes the breaking process even simpler for the operator by automatically adapting the breaker's operating behaviour to any working condition. Uptime is increased due to the fully automated functionality of IPS requiring no operator intervention or reaction, meaning there is no interruption of the working process. Furthermore the system enables more accurate and significantly faster positioning of the breaker, thanks to the 'centring' effect, and avoids blank firing that often results in tool damage. This also eliminates mechanical strain on the carrier, with the life of all wear components being extended.

#### Heavy hydraulic breakers with IPS

Epiroc HB 2000, HB 2500, HB 3100, HB 3600 and HB 4700 breakers are now available with it IPS system. During 2018 all other heavy hydraulic breakers in Epiroc's range will incorporate this unique system.



### Rockster's duplex system proves to be the ideal solution for processing lead ore

The P.B. Mining Company has invested in the "2-in-1" Rockster solution for crushing highly abrasive rock in the Mbeya Region in the United Republic of Tanzania. The company's many sites cover an area of approximately 80km<sup>2</sup>, with exploration works and excavation being undertaken by vertical and inclined prospecting drilling, driving of trenches, vertical and inclined holes.

One of the sites is located near Chunya and here a Rockster R800 jaw crusher is used to crush the Galena excavated rock to 0-40mm. In order to accurately produce a final grain size, a RS83 screenbox and RB75 return belt are used with the crushing plant. Following this the crusher 'switches over' to use the R900 impact

crusher to produce a product size of 0-5mm. This material is then sent to a leaching company to separate the pure lead ore which is then used for the production of concentrates based on polymetallic ores.

Maksim Perminov, who commissioned the machine, and trained the operators, commented: "After finding out the requirements of the P.B. Mining Company I was sure that the Rockster Duplex-System would be the best solution to produce the final grain quality they need with the lowest costs possible. The uniformity of the ore mass is very important for them. As the Galena rock has a very high abrasiveness, it requires primary crushing by a jaw crusher to reduce the wear of blow bars when working on a rotary crusher."



### Dates and themes announced for Bauma-Conexpo Africa

More than 400 exhibitors and 20,000 visitors are expected at this year's Bauma-Conexpo Africa which will be held at the Johannesburg Expo Centre from 13 to 16 March 2018. The exhibition is aimed at providing a forum for the African and international construction and mining industries, showcasing the latest developments in construction machinery, building material machines, mining equipment and construction vehicles.

"An exhibition area of 68,000m<sup>2</sup> makes Bauma-Conexpo Africa the largest trade fair of its kind in Africa, and offers numerous innovations and interaction opportunities," says of Messe München GmbH managing director Stefan Rummel.

The North America based Association of Equipment Manufacturers (AEM), joint venture partner of Bauma-Conexpo Africa, will also be staging show-tech talks with leading representatives from major businesses and universities. The recorded sessions were first presented at AEM's CONEXPO-CON/AGG 2017 exhibition. Topics to be discussed include smart construction site with the use of robots, as well as discussing technologies for building resilient and sustainable infrastructure.

The development of the world's first 3D-printed excavator, designed at the Oak Ridge National Laboratory, will also be presented during the tech talks.

## European Demolition & Decontamination Annual Convention 2018

Organized by the European Demolition Association, (EDA), and in conjunction with the European Decontamination Institute, (EDI), the European Demolition & Decontamination annual convention will be held in Vienna, Austria from 7-9 June 2018 at the Marriot hotel.

The 2018 convention presents the perfect opportunity for contractors, manufacturers and associations related with the European demolition and decontamination industries to meet, interact and share industry experiences. Following 2017's expo

and conference, the 2018 convention is a return to the traditional multilingual conference format, where important and relevant topics will be presented by acknowledged experts. At the same time, a series of cultural and leisure events have been organised enabling delegates to network informally.

The EDA has announced a call for papers with the submission deadline of 15 March. For further information concerning both the conference and papers, please visit: [www.europeandemolition.org](http://www.europeandemolition.org)



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Thorkild Stockholm – Fractum's managing director and one of the owners.

# BREAKING IS FRACTUM'S BUSINESS, AND BUSINESS IS BOOMING

***Denmark based Fractum manufactures breakers. Sounds like nothing special, right? Wrong. Because, unlike the hydraulic breakers the demolition industry is so used to, Fractum's range is based on an entirely different principle. Andrei Bushmarin reports.***

Denmark might be a small country size wise, but in terms of engineering knowledge it is a force to be reckoned with. Based in Fredericia - a charming seaside town in the eastern part of the Jutland peninsula - Fractum is the avatar of a technology intensive company.

## Broke its way out of the crunch

Originally founded in 2004, Fractum was forced into bankruptcy in 2010 by the global credit crunch like so many others in the construction industry. However, it was resurrected in 2012 thanks to outside investment and a new ownership structure. The 'new' Fractum was now owned by Charlie Wang, Richard Eklund and Thorkild Stockholm who became the company's managing director. With a background in electrical and mechanical engineering, Thorkild Stockholm's experience and MBA made him the natural choice to manage the manufacturing enterprise, with Fractum's second reincarnation has turned out to be quite successful.

## The Fractum principle

If a conventional demolition hammer uses the hydraulic energy of a carrier machine to break and split a concrete slab or a stone block with a chisel, Fractum impact breakers are based on the principle of 'free fall'. The hammerhead placed inside a heavy duty housing is hoisted to a pre-set height and then gets released. Since the breaking is done inside the tool's housing, there is almost zero chance of flying debris, which makes Fractum machines a very safe solution.

Another advantage is the long service life of the attachment; since there is very little wear on the hammerhead compared to a hydraulic breaker's chisel, a Fractum breaker can clock up many thousand hours of operation before it wears itself out. This has resulted in Fractum tools becoming the first choice for many when a contractor faces a heavy duty breaking task such as splitting big boulders in a quarry, or crushing large chunks of metal at a scrap yard.

## Born global

From day one, Fractum's modus operandi was to sell globally. Given the modest size of the domestic Danish market but a wide applicability of the technology, exporting was the only viable option for the manufacturer. The first customer that purchased a Fractum breaker (a cylinder operated 200 model) was Japan based steel industry behemoth Sumitomo Steel. Satisfied with the breaker's performance, the Japanese heavyweight went on to buy another five machines.



(left to right) Fractum's skilled welders Rasmus Hartung Westermann, Frederik Madsen and Daniel Ernil transform Mads Larsen's and Thorkild Stockholm's ideas into a finished product.



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Nowadays steel mills constitute Fractum's core customer group, accounting for 75% of the turnover. The mining sector accounts for another 20% while the remaining 5% is distributed between various industries, including demolition. As far as demolition is concerned, Fractum prefers to sell its equipment through rental companies, having recognised the important role they play in this business.

#### Made to measure tools

Every breaker Fractum manufactures is finely tuned to the specific requirements of the job at hand, resulting in that on average it takes 10 to 12 weeks to design and build a new machine. In order to shorten the lead times to 5 to 6 weeks, the Danish manufacturer has recently taken to keeping some crucial components and parts in stock.

Most of the product development is now handled by the chief designer Mads Larsen, a university graduate in mechanical engineering who has been with the company for two years. There are also five workers on the production floor – all of them very skilled welders – who transform his, and Thorkild Stockholm's, ideas into a finished product. Now producing 8 to 10 breakers per year, Fractum has enough capacity to increase the annual output up to 16 units should the need arise.



Mads Larsen – Fractum's chief designer.

#### Breaking forward

Thorkild Stockholm sees the current market situation as favourable. On the mining side, things are looking up for the Danish company in South Africa and South America where demand for its breakers is steadily growing. Fractum also plans to step up its presence in the scrap recycling market by focusing on trade fairs that specialise in steel making and scrap processing equipment. Always on the lookout for a new design challenge, the manufacturer is now mulling the idea of making a breaker equipped with a chisel.

[www.fractum.com](http://www.fractum.com)



A Fractum machine breaking up steel tundishes measuring over 1m in thickness.

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## Rubble Master achieves 90% onsite recycling rate

Recycling demolition waste within a small contained inner city environment can be a tricky business especially if the demolition material has to be removed from the site. One recent demolition project taken on by PE Global Consulting in the city centre of Manchester demonstrated perfectly that not all waste requires removal from site. Directors reported the project had achieved an overall recycling rate of 95% with 90% recycled and reused material remaining on site for future construction purposes. These targets were achieved in large with the use of an RM 70GO! tracked mobile crusher, supplied on rental by Warrington based attachment and crusher specialists ECY Haulmark.

The overall cost savings of using the RM 70GO! onsite over two days had been calculated by the contractor at €15'761.04 once the number of waste collection vehicles and fresh material delivery vehicles had been taken into consideration and the cost of the crusher rental taken off.

The site, situated along the busy A665 Great Ancoates street in central Manchester occupies approximately 1600 square metres, half of which being used as a pay and display car parking area with the other half occupied by a disused two storey Victorian brick build-

ing, facing demolition ahead of a new development of modern residential and commercial buildings on the site.

PE Global Consulting faced the challenge of demolishing the existing two storey building, removing the waste material and preparing the ground for handover to the client. Due to the space constraints and busy main road position, they faced the challenge of minimising disruption from heavy goods vehicles continually entering and exiting the site.

With two excavators working simultaneously on site, the RM 70GO! was brought in once the building had been brought to ground level and the cellars fully excavated along with 20t of scrap metals and 12 loads of inert waste removed from site. The RM 70GO! crushed the remaining brick and concrete onsite, over a period of two days, producing approx. 600t of 50mm down crushed aggregate per day.

The demolition contractor stressed the product the RM 70GO! had produced had achieved a CBR pressure test for piling, once the crushed brick waste had been laid in 150mm sections with 3 to 4 passes on each roll of the material.

[www.rubblemaster.com](http://www.rubblemaster.com)



## THE KEESTRACK R6: new options for improved performance

The Belgian Monseré group is headquartered in Ingelmunster, a town close to the city of Kortrijk near the French border. Due to its own transport and recycling divisions, the company has expanded to become an interregional supplier of services for earth working, demolition work and the recycling of building materials, demolition waste and organic matter.

Under the leadership of Jurgen Monseré, Movarec, the company's recycling division, is responsible for the mobile recycling of construction and demolition waste at Monseré and customer sites. The company processes up to 600,000t of building waste each year, with its dedicated breaking yard also producing around 70,000t of high grade recycled material.

At the end of 2016, Movarec replaced its existing 70t impact crusher unit with a diesel hydraulic version of the Keestrack R6. Despite being a fully equipped unit with dual deck pre-screener, double-deck post screen module and recirculation system, the 1300 series crusher barely weighs more than 61t. Additionally, and unlike its predecessor, the new machine can be transported on

a low loader without having to be disassembled and reassembled. This significantly improves mobility, shortens downtime, and adds to the profitability of the crusher, even in the case of medium sized process volumes.

Keestrack's Belgian distributor for east and west Flanders, H.M.B., supplied and now supports the machine, sees the unit as a perfect match for the requirements of Movarec which was fitted with options specific for Movarec's requirements. A compressed air unit was added to the sprinkler system, in order to clean the spray nozzles quickly and effectively after use. The R6 has also been equipped with other features to optimise production capacity specifically geared to recycling applications.

Jurgen Monseré has now enjoyed over 1,600h operating from his Keestrack R6 since it was delivered in December 2016, delivering high levels of productivity. When dealing with heavy duty feed material containing a large amount of concrete, the crusher achieves an impressive performance of 120t per hour for 0/20mm and 200t per hour when producing a 0/40mm fraction.

[www.keestrack.com](http://www.keestrack.com)



## Hitachi fine-tunes ZW150-6 WHEEL LOADER

The new mid-size wheel loader from Hitachi is a direct evolution of the successful previous generation model, and offers versatility, exceptional comfort and industry-leading safety.

Using its extensive knowledge of the high performing ZW-5 model, and ongoing research of the European market, the Hitachi development team has fine-tuned the ZW150-6 to better satisfy the needs of operators. Greater versatility without compromising performance, and concerns about safety and comfort, have all been addressed.

Ideal for a variety of applications, the ZW150-6 is powered by a new Stage IV-compliant engine for the same levels productivity as the ZW150-5, but with reduced fuel consumption and running costs.

The ZW150-6 is suitable for a wide range of applications including general and road construction projects, and industrial applications.



## MB Crusher in QATAR

An MB Crusher BF90.3 crusher bucket has been working day and night at one of the capital's largest sites in Barwa City (Doha). The crusher bucket was purchased by Boom General Contractors, a large construction company from Qatar, that is a contractor on the site, using the BF90.3 to recycle thousands of m³ of inert waste materials. Mounted on a Volvo EC240B excavator, the BF90.3 crushes the material which will be reused to fill on-site excavations and as subgrade for the roads at the finished site. The MB Crusher bucket has now processed over 60,000m³ since it began work at the site.





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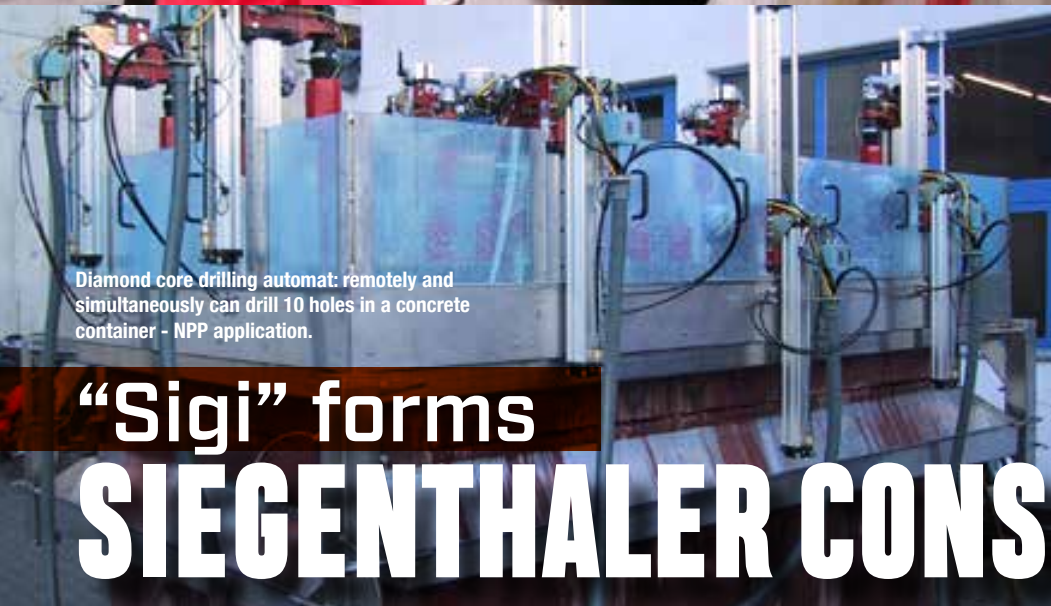
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Sigi demonstrates to the expert engineers from the offshore business a hydraulic diamond wire saw.



Diamond core drilling automat: remotely and simultaneously can drill 10 holes in a concrete container - NPP application.



Hydraulic power pack for an underwater tube cutting wire saw system.

# “Sigi” forms SIEGENTHALER CONSULTING

***Ernst Siegenthaler, more commonly known simply as “Sigi”, is a well-known figure in the global professional concrete sawing and drilling community. In September 2017 he founded his own consulting firm operating in the field he has worked in for the last 30 years.***

Ernst ‘Sigi’ Siegenthaler is a well-known name to competitors, associates and businesses in the international concrete sawing and drilling industry, with most people knowing him simply as “Sigi”. These contacts have been developed through many activities and he has for over 30 years regularly attended the international umbrella association, International Association of Concrete Drillers & Sawers (IACDS); first for Hydrostress and then with Hilti.

In September 2017 Sigi founded his own company siegenthalerconsulting, making all his know-how of complex diamond applications available to the international concrete cutting market. This is an excellent use of his talents as during his time in the industry, Sigi has worked with, and created, highly efficient concrete cutting solutions on a vast number of complicated applications all over the world. Here we outline some examples of applications which highlight his breadth of experience and knowledge.

## **Nuclear power plant decommissioning**

Sigi is a pioneer of dry diamond wire sawing technology, which he has been using since 2003. In the field of nuclear power plant decommissioning, he succeeded for the first time in cutting heavily reinforced concrete dry without additional cooling equipment.

## **Onshore and offshore**

siegenthalerconsulting offers construction companies with overall project responsibility, but without any diamond competence, its experience and expertise. The company provides the advice and support to NPP decommissioning companies, onshore and offshore companies, as well as professional diamond service contractors working in complex applications and decision making situations in the field of diamond technology. Thus, Sigi creates tangible added value for his clients, especially those who guarantee complex diamond applications.



View of the completed wire sawing work at the dam / barrage.



Application training of a remote-controlled tube cutting diamond wire saw. Offshore platforms dismantling.



Sigi at the diamond wire sawing training.



Sigi at the diamond drilling training.



In the field of project engineering, Sigi is able to deliver further feasibility studies, recommendation of method, equipment and tools; dismantling concepts, costs and time planning, coordination and organization on site and much more besides. In the area of product engineering, siegenthalerconsulting is able to advise on the development of special machinery for customer-specific applications, on-site training and application training for users and operators on site.

#### Huge experience

Ernst 'Sigi' Siegenthaler began his professional career in the diamond service contractor business in 1985 with Hydrostress AG in Switzerland. At that time, Hydrostress developed and manufactured machine systems for concrete sawing and drilling, being very successful in high-pressure hydraulic and in pre-stressing system technology. Sigi played a significant role in developing the first foreign subsidiaries and distribution partners of Hydrostress in England, France, Germany, Austria and Italy.

In 1990, Hydrostress founded Hydrostress Canada Inc. in Toronto. As general manager of this company, Sigi implemented the Hydrostress hydraulic machine systems methods for the professional sawing and drilling contractors in Canada and the USA. "This was indeed a big challenge as the American technology at that time was at a much lower level compared to my knowledge. I had to modify the hydraulic machines, especially

the hydraulic wall saw systems, to be suitable for the American hydraulic power packs," explained Sigi of the challenges faced.

As his reputation grew within the industry, 1997 saw Hilti AG bringing Sigi to Liechtenstein to work at its corporate headquarters as a project manager in the business unit Diamond. Sigi played a significant part in building Hilti's diamond services contractor business in Europe and Asia. In his role as global key account manager, he successfully undertook and completed many nuclear power-plant decommissioning projects in Germany, UK and France, as well as building many customer-specific special machines which were supported by numerous application training programmes.

In the past, Sigi has undertaken many consultancy projects in the offshore business in the North Sea, close to UK and Norway. In Asia, he has supported several oil refineries in the onshore business drawing on, and sharing his know-how of diamond wire technology and application training.

"siegenthalerconsulting now aims to provide and stands for guaranteed decision-making security, the selection of the right technical solutions, cost savings, on-time delivery and, finally, for the success of the project. "It is a competence you can count on," says a proud Sigi.

PD*i* Magazine would like to wish Sigi the best of luck in his new venture.

***sigi@sigi-siegenthaler.ch***



# ***IACDS Annual Convention 2018, a key meeting for the cutting professionals***

***The IACDS Annual Convention 2018 will be held in May 21-23, in Tokio, Japan, and it will be celebrated in the framework of the JCSDA General Assembly.***

In 2018, the International Association of Concrete Drillers & Sawers, IACDS, will be celebrating the Annual Convention, in Tokyo (Japan), on May 21st-23rd. The event will be celebrated in the framework of the Japanese Association General Assembly, to be held in May 23rd, 2018.

The Convention combines professional knowledge-sharing through a number of conference sessions, as well as a showcase of the best products and services presented by the relevant companies of the trade (in the Exhibition area). While leisure activities (dinners, tours, etc.) will promote the fraternization and networking among our participants.

This event will clearly create a frame of reference for the debate between the decision-makers of the trade, cultivating the exchange of best practice and offering new opportunities for all the actors. The professional ticket to the event includes on the first day a visit to industry locations (jobsites, manufacturing facilities...) and official opening of the Annual Convention with a welcome cocktail in the convention's hotel. Further on the second day it includes conference sessions (interpretation English-Japanese), lunch and networking and General Assembly (for IACDS members only) and a gala dinner in the evening of the second day.

## **PRELIMINARY PROGRAM**

### **Monday (May 21st)**

- Visit to industry locations (jobsites, manufacturing facilities...)
- Official opening of the Annual Convention with a welcome cocktail in the convention's hotel

### **Tuesday (May 22nd)**

- 09:00 – 13:00 Conference sessions (interpretation English-Japanese)
- 13:00 – 15:00 Lunch and Networking
- 15:00 – 17:00 General Assembly (for IACDS members only)
- 19:30 – 23:00 Formal dinner in some unique location

### **Wednesday (May 23rd)**

- General Assembly of JCSDA (for JCSDA members only)
- Possible alternative visit for IACDS members
- Dinner between IACDS and JCSDA members

### **Thursday (May 24th)**

- Golf Day with JCSDA (optional)

## **REGISTRATION**

Those who are interested to attend the IACDS Convention in Tokyo should visit the IACDS website for more information and registration.

**[www.iacds.org/convention](http://www.iacds.org/convention)**





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## 2017 DEMOLITION BUSINESS REPORT NOW AVAILABLE

The 2017 report on the prospects of demolition companies is now complete and available. Findings of the report include that 13% of demolition companies believe there will be a significant increase in business in 2018, 34% a slight increase, while 46% stated that business would be stable. For the rest of the companies, 8%, there would be a reduction in business.

[www.europandemolition.com](http://www.europandemolition.com)

## CSDA of North America announces new company certification program

The CSDA Company Certification Program is a company audit program specifically for sawing and drilling contractors, developed by CSDA's certification committee. The program provides a valuable prequalification tool, as well as improving the knowledge and skills of cutting contractors.

"The CSDA Company Certification Program made us take a look at our business from another angle, and analyse how we do things. This has not only resulted in us winning jobs through our certified status, but has improved us from an operational standpoint," says Daniel Foley of CSDA contractor member, Cobra Concrete Cutting Services Co.

To achieve certification, a company must meet the basic safety and insurance requirements of the industry, undertake sound operational and financial best practices, and provide evidence it has taken part in basic training or certification programs. This information is compiled and submitted as a confidential written application review by an independent third party law firm, which notifies the CSDA when an application has been approved.

"I am extremely pleased to have my company achieve CSDA certified company status," says Cutting Edge Services Corporation owner Tim Beckman, a wire sawing specialist based in Batavia, Ohio. "The CSDA Company Certification Program provides me with documentation that can I present to customers and general contractors. I can prove that the company not only performs safe and efficient cutting work, but also attains a high level of business performance."

The first of its kind in the industry, the program aims to promote the message that hiring a certified company will eliminate risks associated with hiring a cutting contractor. The CSDA is the only association that certifies contractors, and the Company Certification Program is available to all contractor members.



## 24<sup>th</sup> DEMOLITION CONFERENCE IN BERLIN

From the 2 to 3 March 2018, the German Demolition Association (DA) will host its 24th demolition conference at the Maritim Hotel in Berlin. In 2017, the European demolition and dismantling industry's largest event was attended by over 900 delegates and 115 exhibitors from 15 different countries, with expectations being high for the 2018 event.

The conference will open with a keynote speech by former State Minister Michael Groschek which will be followed by a high level technical conference programme. This features 15 talks by leading industry experts on a wide range of topical demolition issues including practical information, project reports, key law changes and innovative recycling processes. Amongst this year's topics subjects include, 'Extreme demolition in the heart of Munich – a symbiosis of demolition, specialist civil engineering and new construction', and 'The hazardous substance inventory

as the essential basis for professional demolition planning'.

As has been usual with past events, the conference will cover a wide range of themes. Further talks on challenging subjects such as '300 t of sprayed asbestos – the extensive rehabilitation of a high-rise building: the Deutsche Welle building in Cologne', and 'Liability issues for demolition company executives' have been scheduled. Construction site reports will also be presented including the demolition and gutting of the Zeilgalerie shopping centre in Frankfurt am Main, and practical examples from the DA's Technical Committee on blasting technology.

Simultaneous interpretation from German into English and French will be provided to cater for the growing numbers of international visitors. For further information the conference programme is available for downloading both from the DA website and from the dedicated

conference website: [www.demolition-conference.com](http://www.demolition-conference.com)

As well as the conference, an industry exhibition will be run in parallel. As of November 2017, 90% of exhibition space had already being booked by leading equipment manufacturers and service providers. A wide range of exciting products is expected to be displayed, with potential exhibitors being advised to contact the organisers as soon as possible, due to exhibition space being limited.

Immediately following the conference and exhibition, a 'Dialogue Evening' will be held on the second floor of Ludwig Loewe Höfe. The Dialogue Evening provides an excellent opportunity for attendees of the conference to interact, share knowledge and experiences, as well as make new and strengthen old connections.

Delegates will also have the opportunity to take a guided tour of Berlin on the second day of the conference.

## CDRA Announces 2018 award winners

The Construction & Demolition Recycling Association (of North America) has announced two inductees to its prestigious C&D Hall of Fame and two award winners. These, as well as other awards, were presented at C&D World 2018 held between the 10 and 13 February in Nashville.

The C&D Hall of Fame honours prominent leaders and pioneers in the construction, demolition and recycling industries that have made an extraordinary contribution both to the industry and to their community. Recognising leadership in advocating environmentally sound practices within regulating agencies and legislative bodies governing waste regulations, CDRA has inducted two new people into the C&D Hall of Fame.

The first is Leonard Cherry who is president of Houston based demolition and recycling firm, Cherry Companies. Leonard served on the board of the CDRA, and is active in

the local community.

The second, Ken Hoving, was president of the K Hoving Company in West Chicago, Illinois, until its purchase by Lakeshore Recycling Systems. He remained as an executive until his recent retirement. A long-time member of the Chicago waste industry community, Ken served on the CDRA Board, including as Member 'at large' on the executive committee. He is also well known for his various charity works.

"Both of these gentlemen exemplify the best in the C&D recycling industry," said CDRA president Troy Lautenbach. "Their service and innovation in the industry, as well as their work for the association and their communities, make them deserving of this honour."

Other awards being presented in Nashville include the 'Operator of the Year'. This recognises recycling operations in the construction, demolition

and recycling industries that have made an extraordinary contribution to the industry. This award will be presented to Recon Services, a full service, multi-discipline recycling company from Austin, Texas.

Owner Walter Biel is known for being progressive and open to innovation, to the point he installed the first ever robotic sorting equipment on a C&D operation in North America. In addition, Recon is certified by the Recycling Certification Institute, providing its LEED customers an extra point no other company in Texas can.

The CDRA member of the year is awarded to an individual who has provided extraordinary service to the mission of the organization and the C&D Recycling industry during the previous 12 month period. John Schumacher and his assurance agency is being recognized for the excellent work done in creating from scratch a safety awards program for the CDRA.





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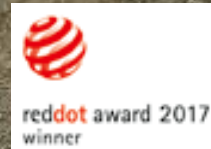
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