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**ISSN Registration:** ISSN 1650-979X

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The magazine PDI, Professional Demolition International is published five times per year with a worldwide circulation of 10000 copies. The annual airmail subscription rate is US\$ 45. All subscription correspondence should be directed to: The subscription department, SCOP AB, P.O. Box 786, SE-191 27 Sollentuna, Sweden. PDI is mailed by second class postage. ©Copyright SCOP AB 2000-2014

Cover photo: HTC Duratig TS grinding head.

PDI Magazine is a member of the following associations:



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WHERE EXPERIENCE COUNTS



# Brexit: 30% market uncertainty for Europe's demolition and concrete cutting industry?

One more year has come to its end. Businesswise for the industries PDi covers it has been a rather good year, with many markets booming, or at least doing well. In my own country, Sweden, there have been some really tremendous years, but now I believe we have reached the limit; in the autumn the Swedish building and construction industry dropped 11%, admittedly from a very, very high level. We are still booming, and actually there are plenty of large projects going on all over the country, with plenty of demolition and concrete cutting projects of all sizes. However, some projects have been put on hold, but most contractors believe that the whole 2019 will be a good year, except at the very end when any evidence of a recession will be more obvious.

One thing though in Sweden that needs to be stressed is the fact that we still don't have a government following the election in September. There are worries about planning for the future, and in what directions construction industry regulations will go when we finally have a new government. Sweden's current parliamentary situation is due to a fairly new party Swedish Democrats (Sverigedemokraterna), which is strongly nationalistic and has a strict immigration policy which became the third biggest party at the recent election. This has meant that none of the other parties can form a government unless they cooperate with the Swedish Democrats, and no one wants to go into coalition with the Swedish Democrats. The Social Democrats and the Conservatives (Moderaterna) are the two biggest parties, but they are too far apart on many issues to form a coalition. This has presented quite a tricky situation indeed. But Sweden has set a new budget for 2019 created by the Conservatives and Christian Democrats, and was approved by the Swedish Parliament recently. Even though we have a difficult parliamentary situation in Sweden, I believe the situation with Brexit in the United Kingdom is far worse. Many people that I talk to, in particular people working for manufacturers exporting to the UK, are quite worried.

The key concern is what will happen if there is a hard Brexit? What will the consequences be? What will happen regarding import and export duties and customs backlogs? The day when the UK leaves the EU is coming closer and closer. If there is to be a hard Brexit it will for sure hit hard both British and companies that do business in the UK, and of course customers on both sides. The UK is for instance the biggest machine rental market in Europe; its demolition and concrete sawing industries are also some of the largest in Europe. I don't know how much in percentage terms these UK markets represents, but maybe some 30% of the European demolition and concrete cutting businesses? We will for sure not lose this business, but there may be delays and problems that will affect turnover and profits during 2019.

In effect, there is little doubt that a hard Brexit will affect suppliers heavily, but I guess not so much will now be settled over Christmas and New Year, with January presenting the 'crunch' time. Maybe Theresa May has something up her sleeve? Or will there be another referendum concerning the UK being a part of EU. I guess what is happening in the UK might discourage other European countries from leaving the EU, but with that said, I would like to thank all our readers and advertisers for this year, and wish you all a peaceful Christmas and Happy New Year.

**Jan Hermansson**  
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## Words from the IACDS President

### Don't forget the IACDS Diamond Award 2019

It will soon be awards season in the world of entertainment with the glitz and the glamour of ceremonies such as the Oscars all set to capture headlines around the globe. Something I've asked myself over many years is why we always put stars of sport, film and music and other forms of art and entertainment on such a pedestal, and yet the heroes of business very often go uncelebrated. We honour singers, actors and sports stars, but where is the love for our finest business people, especially those specialist contractors who come up with amazing solutions every single day of the year?

A few years ago, I decided to change that in my business, and the effect has been very positive. I am now making a plea to the rest of you in the industry: don't be shy! There's often a feeling among companies that putting yourself up for an award is somehow being flashy or seeking the spotlight for the wrong reasons. When there are contracts to win, staff to manage, train and pay, why would anyone take time out to start putting themselves forward for awards? And that is, ultimately, the question – why do it? What value is there in putting yourself forward? What if you don't win?

Since I took over at D-Drill, our first major award was a Diamond Award in 2011 which acknowledged an amazing piece of wire sawing at a UK hospital to save ceramic artwork that would have been lost without the innovation of our team. Can I honestly say we went on to win a stream of orders because of that win? Of course not. But the morale boost it gave to the team was amazing. Added to that, being an international award winner was a great addition to our marketing and sales pitches. It certainly adds credibility to everything you say about your own business.

We also won a Specialist Award at an event run by the largest construction trade magazine in the UK, which was great PR for us in front of our peers and potential clients. Not long afterwards, I put myself forward for the title of 'Businesswoman of the Year' in the UK and won it. Again, my reason for applying for the award was not to gain personal glory, but that it was good for my business. Of course, anyone who knows me will know that I enjoyed the whole experience, and it has led to national media appearances, including being a panellist on a UK current affairs TV show, raising the profile of our industry. How else could I have coined the phrase 'concrete cutting is sexy' on national TV? I even won a lifetime achievement award recently and I certainly don't feel old, or dead for that matter!

So what were the tangible benefits? I'll give you one very solid example. I'd desperately been trying to speak to a major contractor who we were keen to work with but it was proving tough. However, when I



attended an event where the company's chief executive officer was speaking, it was he that made a beeline for me during the coffee break having seen me on TV. This presented a chance for me to tell him all about my business and what we could do for him. That wouldn't have happened if I'd have hidden my light under a bushel, or said we were too busy to be entering awards.

You have to also remember that this was at a time when we were just emerging from recession, and it might have been seen as frivolous to be going for awards. However, I saw it as the chance to celebrate everything that's good about our industry at a time when businesses had been struggling. Also, if we want to recruit the next generation of people, don't we have a duty to say what a fantastic industry we work in and that you too can be celebrated just like a sportsperson or entertainer?

So it is with that in mind I would encourage you to enter The Diamond Awards, which is an internationally recognised competition for concrete sawing and drilling companies presenting the chance to demonstrate their professionalism. It is organised by the International Association of Concrete Drillers & Sawers (IACDS) and is a great opportunity for contractors because they can showcase their expertise and, on the other hand, for suppliers because they can gain visibility worldwide. Its goals are recognising the work of concrete sawing and drilling companies internationally, promoting the expertise of concrete sawing and drilling professionals, and spreading the techniques and equipment used in concrete sawing and drilling contracts.

We celebrate the Diamond Awards every three years, and in 2019 the awards ceremony will be held on 11 April during the celebration of the annual event of the IACDS at bauma 2019, which will be held from 8 to 14 April in Munich, Germany. The construction press will be invited, and the winners will be announced and honoured with the recognition of the Diamond Award.

If you want to find more information or to find out how to enter, you can visit the website: <http://www.iacds.org/diamondaward/diamond-award-2019>. All entries must be in before the end of January 2019 – good luck!

**Julie White, President of IACDS**  
[juliewhite@d-drill.co.uk](mailto:juliewhite@d-drill.co.uk)





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## Words from the EDA President

# SETTING OUR SIGHTS ON 2019

The intense 2018 is coming to an end and we must already think about what 2019 will bring us. During the next year, the annual convention of the European Demolition Association is going to be totally different from previous years as it will consist of a study tour around Japan, a strategic country for the industry due to its know-how. The reason to celebrate our annual meeting in this format is to study thoroughly the state of the art Japanese demolition industry, and create professional ties with Japanese public institutions and associations.

In fact, this is not the first time the association has been in contact with Japanese demolition companies and their suppliers. In 1988, a symposium, EDA-RILEM, was held in Tokyo with a large EDA delegation going to Japan in order to better get to know the demolition industry, technology, equipment and way of working there. The trip was a success, with the European attendees becoming aware that the country was a place full of interesting companies and workplaces to visit. We were also able to notice clearly that there much we could learn from our Japanese colleagues, and how they innovate every day in their demolition and recycling activities.

We are next year organizing an intensive trip throughout several places in Japan to visit local manufacturers, see their factories, as well as their demolition, decommissioning and recycling work at first hand. Several hosts in different places have agreed to open their doors so we can get a close up look at their ways of working.

We hope the trip will be interesting and advantageous not only for EDA members, but also for the Japanese companies that will welcome us. This will enable us to progress together

in continuous goodwill in order to improve our industry, and to continue the encouraging cooperation between all involved, ensuring the constancy of effort, both in 2019 and in the years to come.

### About EDA

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

info@europeandemolition.org  
www.europeandemolition.org



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

**EDA**  
EUROPEAN  
DEMOLITION  
ASSOCIATION

## Dymatec makes further addition to sales team to continue growth

Dymatec, one of the UK's leading manufacturers and suppliers of diamond drilling and concrete cutting consumables, has appointed industry veteran Neville Vooght to its growing sales team. With the company experiencing continued growth thanks to demand for its high quality and high performing diamond cores, blades and wires, Dymatec has brought in Neville to help continue to nurture and develop its valued customer relationships.

Neville's appointment follows the hiring of Michael Cinque, who joined Dymatec as area sales manager in September working alongside national sales manager David Hibbert. Neville will work closely with Michael to represent Dymatec throughout the UK. Jeremy Newton, managing director said of the appointment: "I personally am delighted that Neville has chosen to join Dymatec. Neville is arguably one of the most well connected and experienced sales managers in the industry and he joins us at an exciting period of continued growth. As we come to the end of the calendar year we can look back on a hugely positive 12 months. We have always been known for the quality of our products and our exemplary customer service, and this latest

development is testament to our reputation and commitment to our customers."

Neville Vooght said of his appointment: "Dymatec is a market leading player in the world of diamond drilling and concrete cutting and I am genuinely pleased to be joining this exciting company as it continues to grow and develop. I have worked in the industry for a long time, and I am looking forward to utilising my knowledge and contacts to help Dymatec continue on its growth trajectory."

**www.dymatecuk.com**



**Neville Vooght.**



## LiuGong celebrates 60th anniversary and the production of 400,000+ loaders

On 26 November, LiuGong celebrated its 60th anniversary, with a celebration being held at LiuGong International Industrial Park in Liuzhou, Guangxi, China. Attendees included domestic and overseas customers, distributors, suppliers, government officials, shareholders, and stakeholders who have worked with LiuGong throughout its 60 years. LiuGong also celebrated the production of its 400,000 wheel loader, and at the same time, six new products comprising of the 990F excavator, B170DL bulldozer, S935 sugarcane harvester, TC800C5 crane, 4180D motor grader and 886H loader were unveiled.

Established in 1958, LiuGong is seen not only as a pioneer in the production of loaders, but also has developed loader technology and manufacturing in China continually investing in R&D even during the most difficult years. In 2015, the company launched the National Earthmoving Machinery Engineering Research

Center and LiuGong Global R&D Center, providing LiuGong with the only national demonstration base for technological innovation and industrialization of earthmoving machines. A total of 19 product lines at LiuGong have now been upgraded, and 18 new products have been released, including a range of machinery for sugarcane planting, heavy duty mining excavators and loaders, mining trucks, large dual wheel cutters, smart manufacturing system, and mobile compressors.

LiuGong has now evolved to be a global provider of total solutions. In 2016, LiuGong presented the world's first vertical lift wheel loader, a new generation of H-series loaders, E-series excavators, D-series rollers and motor graders, and C-series forklifts. LiuGong is committed to providing first class construction machinery products and services to customers around the world.





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## Swedish contractor transforms operations with the Allu D-Series

The Allu Transformer D-Series is a range of attachments purpose designed for a variety of precision screening and material processing applications, transforming business operations wherever used. Highlighting the unique attributes of a highly productive range, Swedish contractor Johan Kits has since 2014 successfully used the range for a variety of projects, transforming material arising from recycling, blasting and excavating.

The Transformer D and DL-Series have proved their value in a variety of applications; these include landscaping, pipeline padding, recycling and agricultural applications, crushing and screening, transforming soil, waste and debris processing. The unique attributes of the series means that all work can be carried out on site, with this truly mobile solution providing the versatility and flexibility to enable more efficient work even in the most challenging of environments.

One such business that has enjoyed the benefits of the Allu Transformer range is Swedish company Kits Contractor AB. Johan Kits bought his first Allu Transformer in 2014, with the attributes of the equipment meaning that Johan and his team were able to take on more projects. Johan soon found that the Transformer was too small for his needs, so in 2015 he changed it to an Allu DN 3-12, which he still owns and operates. Johan did not stop there; in 2017 he bought a DS 4-17, and in 2018 added a DH 4-17 for pre and rough crushing and screening.

Johan Kits' Transformers are highly flexible and are able to operate mounted on most excavators / loaders. Johan's latest acquisitions are mounted on a Liebherr 140 (Allu DN3-12) and a Volvo L90 (Allu DS4-17). The DN 3-12 is currently configured to produce 0-30mm materials, whereas the DS 4-17

is configured to 0-16mm. These configurations provides Johan with the flexibility and productivity he needs for his varied and very busy business.

### Varied business interests

Kits Contractor AB was established in 2011 and now employs 12 permanent staff; the company also takes on temporary contracting staff as the need arises. Johan's main business is recycling construction waste, as well as blasting. The Allu Transformers have proved their worth many times over working on different job sites, where the transportability and flexibility of the equipment has come into its own.

"We use the material (transformed by the Allu equipment) on different job sites, although we do sell it to other companies as well. Mostly the buyers (of the material) are other contractors and they use it mostly for landscaping projects. But a lot of material we use is for ourselves," says Johan Kits concerning the recycled material following processing by the Allu Transformers. As to why he chose the Allu equipment, Johan continued, "Allu is a well-known brand/company and its reputation is excellent. It offers low investment combined with high capacity even in bad conditions and is simple to operate."

At the heart of the Transformer D-Series is the unique top screen of its bucket. This is where the screening blades spin between the top screen combs with the end material size being defined by the space between the combs. Effectively these screening combs carry most of the material weight to ensure the drums and bearings take on less impact and load. This construction is clog-free and maintains good capacity even with wet materials.

## Wacker Neuson reports third quarter growth

In the third quarter of 2018, the Wacker Neuson Group reported that it has continued to build on its successful development evident during the first half of the year, with revenue increasing 10% to €416M (Q3 2017 was €379M). Growth was fuelled by the continued strong demand in its core markets of Europe and North America, as well as positive developments in the Group's agricultural equipment. In Europe, which is the largest sales market for the Group, Q3 revenue increased 10% to €307M (Q3 2017 was €280M), with the region's share of Group revenue remaining unchanged at 74%.

"In addition to robust growth in the European construction industry, our business with equipment for the agricultural sector had a disproportionately positive impact on regional development with revenue from our two Kramer and Weidemann brands increasing 21%," explains Martin Lehner, CEO of Wacker Neuson SE. In the Americas region, which accounts for around 23% of Group revenue,

revenue for the third quarter rose 11% to €98M (Q3 2017 was €88M). "We benefited in particular from continued strong demand from the North American rental industry," adds Lehner. In contrast, the Group experienced a drop in revenue in South America. Revenue for Asia-Pacific rose 10% to €11M (Q3 2017 was €10M), corresponding to a 15% increase when adjusted for currency effects.



## Epiroc to acquire South African manufacturer

Epiroc has agreed to acquire Innovative Mining Products (Proprietary) Limited, widely known as New Concept Mining, a South African manufacturer of rock reinforcement products for underground mining.

Innovative Mining Products is based in Johannesburg, South Africa, and has facilities also in Peru, Zambia and Canada. It manufactures a comprehensive range of underground mining roof support products, rock monitoring systems and related accessories. Innovative Mining Products has about 900 employees, and had revenue in the past 12 months through to 30 September 2018, of about €59M.

"This acquisition will enable us to strengthen our global position in the hard rock bolting market," said Helena Hedblom, Epiroc's senior executive vice president, Mining and Infrastructure. "We are happy to combine forces with the strong team at Innovative Mining Products to bring the best rock reinforcement solutions to mining customers."

The acquisition is expected to be completed in the first quarter 2019, pending approval from regulatory authorities. The purchase price is not material relative to Epiroc's market capitalisation, and is not disclosed. The business will become part of Epiroc's Rock Drilling Tools division, and will continue to be based in Johannesburg.

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

## Yanmar appoints new distributor

In order to further strengthen activities in the African market, Yanmar has appointed Sotradies as its new distributor in Tunisia for small engines as of October 2018. Mr. Slim Bairam, chief executive of Sotradies said of the appointment: "We are very pleased with the new partnership with Yanmar, which will enable us to further strengthen our presence in the local market. As a distributor of international premium brands, we follow our development strategy with new collaborations with internationally renowned partners, to expand our portfolio and tap into new markets."

Emilio Tognetti, Yanmar's business development manager Middle East and Africa, commented: "The appointment of Sotradies as our new distributor in Tunisia is another step on a clear path that Yanmar is taking to establish a strong position in Africa. They are exactly what we expect from a Yanmar authorised dealer and I am sure they will strengthen Yanmar's brand awareness on their territory."

Sotradies is a highly qualified company with decades of experience in distributing equipment in industrial, construction and genset activities. The company has specific experience with diesel engines and possesses expertise in the field of fuel injection equipment. Sotradies is part of the Tunisian Ulysse Trading & Industrial Companies (UTIC) Group. The Group was founded in 1969 and covers 24 companies in six different sectors, including mechanics, distribution, packaging, tourism, food, and services and finance, now having in the region of 7,000 employees.





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## M&T Expo 2018 exceeds expectations and generates business

The 10th M&T Expo for construction and mining was held from 26 to 29 November at the São Paulo Expo exhibition and convention centre. A total of 800 national and international brands from 19 countries were represented on the 70,000m<sup>2</sup> of exhibition space.

Falk Senger, managing director of Messe München, noted the success of its first M&T Expo that has confirmed its decision to invest in the country. "We became very impressed by the strong interest of the exhibitors in this event, which is a milestone of our entrance in the country. The trade fair marks the beginning of the long term cooperation between Sobratema and Messe München. M&T Expo has a key role to play for the construction machinery segment in Latin America. This is underlined by the presence of numerous countries, among them the top five nations, with the largest number of visitors apart from Brazil being from Argentina, Bolivia, Chile, Paraguay and Peru."

According to Afonso Mamede, president of the Brazilian Association of Technology for Construction and Mining (Sobratema), M&T Expo is key in promoting

new technologies for the construction and mining market, and acts as a barometer for the industry. "Equipment manufacturers, as well as components and services suppliers, present a wide range of products at the trade fair, so that the user knows what is new in the industry and, at the same time, has better conditions to negotiate the purchase of machines."

This year, Sobratema's analysis of the Brazilian construction equipment market sees market recovery, with an estimated growth of 38% compared to 2017. In total, 17,800 units will be sold in 2018 against 12,900 units the previous year. "Certainly, the fair will contribute to this good result, like in previous editions, when it helped to revert the impacts of the economic crises experienced by Brazil," points out Mamede. This is also confirmed by Walter Rauhen, president of Bomag Marini Latin America: "We have noticed in all the clients who came to our booth a great optimism for 2019 and 2020."

For the vice president of Sobratema, and president of Escad Rental, Eurimilson Daniel, the timing of M&T Expo was perfect. "I heard from a number of exhibitors that

it was very good that the fair took place after the election, because people are more optimistic, and expectations about new infrastructure projects are much higher. We are living a moment that exceeded our expectancies. The sales are soaring, and the staff was very pleased with the results achieved," he said.

Luciano Rocha, Komatsu general manager, sales and marketing, adds: "Our booth was always full of customers. And having so many visitors at this time of the year was amazing. Most importantly, we received highly qualified customers which were very interested in purchasing equipment. M&T Expo is a very important tool to disseminate and strengthen our brand in the Brazilian market."

Cristian Galaz, Manitowoc vice president of sales for South America, highlights the strong presence of visitors from other countries. "We received visitors from Bolivia, Peru, Chile, and from other countries. They all came to São Paulo because they are aware of the importance of this fair, and the relevance of Brazil in this sector," said Galaz. "For us, this is an excellent opportunity to display our models of

cranes that are perfectly suited for jobs in the region."

To provide a complete visitor experience, Messe Muenchen of Brazil created three new attractions at the fair.

At the Demonstration Arena, various newly launched machines were shown live. The Content Arena enabled visitors to attend 28 market presentations by representatives from well-known consulting companies from Brazil and abroad, plus listen to technical presentations by manufacturers and suppliers. The Smart Construction Arena showed the latest trends in technology and innovation in the industry. Among the solutions to be presented were drones, automation systems, lubrication systems, electronics, machine control solutions, 3D printing systems, as well as safety solutions for load handling equipment and innovations for collaborative work.

In addition to exhibiting, more than 300 representatives from construction and mining companies, equipment manufacturers, rental companies, suppliers and service rendering companies attended the M&T Expo Summit. The next M&T Expo is scheduled for 2021 at the same location.

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**WHAT IS THE REVENUE OF THE GLOBAL CONCRETE CUTTING MARKET**

# ACTUALLY WORTH?

***It is tough to put final number on the total revenue of the global concrete cutting industry, mostly because it is very difficult to collect the numbers, but for 2018, PDi has given it a go.***

Every year in PDi issue 6 we attempt to make an estimation of the revenues for the global concrete sawing and drilling industry based on the activities of the member countries in the IACDS. We have compiled a table showing the figures for each country, with the table itself having been prepared by the IACDS. This has not been done for the last five years, with PDi itself having prepared an estimate based on some old figures, some new figures and through our contacts in the industry.

## **The current market situation**

When IACDS held its convention in Japan this year, the current market situation was discussed among the participants during the meeting. No exact figures providing an update to the table were given, but there was some valuable information about the market situation revealed. We also received some recent information that further updates the picture which we are happy to publish. It is also worth mentioning that the table shown on this spread has not been updated for all countries, so please read carefully the text paying attention to the date when the information was given.

IACDS has currently 23 members, comprising of seven association members, 11 suppliers, three single contractors and one press (PDi). It was discussed at the IACDS meeting that a rumour had been heard that the association in New Zealand was about to merge with the association in Australia. This is an open question, and we would be delighted to know if there is some truth in

the rumour. Julie White also pointed out at the IACDS meeting that discussions about membership are taking place with China, Australia, Denmark and Russia.

From Australia, the president of the Australian Concrete Sawing & Drilling, CSDAA, Jason Franken has provided updated information, with the current situation in the country being satisfactory. Jason says that infrastructure and tunnel projects are being completed in Melbourne and Sydney on an unprecedented level. However, construction work, including sawing and drilling, has seen contractors struggling to meet requirements. He believes that turnover and profits for concrete cutters for the next five years will increase each year. The CSDAA will hold its annual meeting and Tech Fair on 1 November, 2019 at Mooloolaba, Queensland for three days. Jason says that concrete cutters around the world are invited to attend, and further promises there will be no crocodiles, only sharks (!) and good surf. Updated revenue figures for Australia can be read in the table.

When it comes to Australia's neighbour New Zealand, PDi has very little news from the association, New Zealand Concrete Sawing & Drilling Association, NZCSDA. According to its website - [www.nzcsda.co.nz](http://www.nzcsda.co.nz) - there are 34 members and the association's office is located in North Harbour, Auckland. There is no information about who is the current president of the association; however, there is contact information on the website and PDi hopes to come back with an update on the situation there during 2019.

The Austrian association is reporting that the concrete cutting market is currently very good with a lot of work. Next year is expected to be even better.

Hans-Jörg Wagener from the German association says that the market is currently particularly buoyant. The rates on numerous jobs have increased, with no signs of recession. The association now employs three







people, and has an annual budget of €600,000, to service the requirements of its 600 members, with dust, and in particular silica dust, now considered to be a big issue in the country. Additionally, a new concrete cutting museum is to be opened in Hamm. Updated figures for Germany can be found in the table. The association is also organising its own trade fair bi-annually, with the next show being in 2020.

Sweden has also reported a current thriving environment. However jobs rates have decreased due to several 'fortune seekers' active in the market. Also affecting market conditions has been the Parliamentary elections which were held in September. The country now has a difficult parliamentary situation with no new govern-

ment at the moment in place. The Swedish demolition and concrete cutting contractors have merged into one association, with this arrangement reportedly working well, with 101 members coming from concrete cutting. Over the years, the association in Sweden has had many members, and was once the third biggest association worldwide. Currently numbers have not increased at the same rates and several other national associations have caught up, and in some cases surpassed Sweden, which is now in fifth place position along with the UK.

In the US, the economy is improving, with one major issue being finding competent workers, with one solution being the recruitment of retired armed forces veterans. €1.3B (approx.) has been set aside for renovation and infrastructural projects, which will create a number of new jobs. Today the CSDA has 530 members including suppliers, meaning that although the association now has good membership levels again, it did report that it has become expensive for contractors and manufacturers to adapt to the silica rules in the country. In Canada, the concrete cutting industry is booming in the western parts of the country, although, and as in the US, it is proving hard to find skilled staff, with skilled cutters being at a premium. Figures in the table have not been updated though as current turnover has not been confirmed.

Austria is booming, with job rates increasing, with the major problem again being the lack of experienced staff (at the meeting the IACDS reached out and urged Austria to become a member of the association again). SNED from France reported that it believes business will return to good levels, with a great deal of work being undertaken in the Paris area, with several new projects in 2018 and 19. As in many other countries, staffing is proving challenging, with the shortage of trained workers leading to

many unqualified operatives being used on projects. Unfortunately updated figures for Austria and France have not been provided.

The United Kingdom is another country experiencing good market conditions, performing far better than expected despite Brexit. The market has seen a number of acquisitions, with a reliance on a largely eastern European workforce particularly the London area. This has led to instability, as the workforce tends to move from one company to another as jobs start and finish. The association has today 98 members, an increase of some 10% over the last year. Updated figures can be found in the table.

The market in Switzerland is not actually booming but is still good. There are 110 members in the association, and about 400 in total for the whole country, which is very good considering the size of the Swiss market. Of particular interest is the fact that the Swiss associa-

## 2018 Global Concrete Cutting Market

Country Association	Association Members	Total number of contractors	Average revenue company in US\$
Australia	130	500	1'450'000
Austria	37	130	800'000
Brazil	0	400	400'000
Canada	28	350	600'000
China	0	1'000	300'000
Czech Republic	0	50	500'000
Denmark	35	150	600'000
France*	35	250	1'400'000
Germany*	730	1'200	450'000
India	0	700	400'000
Ireland	40	60	300'000
Italy	13	200	600'000
Japan*	84	1'800	730'000
Korea	0	730	1'000'000
Netherlands	110	400	500'000
New Zealand	40	120	500'000
Poland	0	120	400'000
Portugal	0	30	300'000
Russia	26	500	355'000
Spain*	20	60	500'000
Sweden*	120	380	900'000
Switzerland*	110	4000	1'000'000
Thailand	0	70	400'000
Turkey	0	80	600'000
United Kingdom*	98	235	1'600'000
United States*	360 (530)	2'500	2'700'000
	<b>1'982</b>	<b>15'895</b>	<b>19'285'000</b>

\* Member of the international umbrella association IACDS





tion now offers a three year long training programme for concrete cutters. The Spanish market continues to grow as more construction projects are undertaken with the Spanish concrete cutting association now having some 20 members. Updated figures are in the table for these two markets.

The Japanese association has 50 members, which includes 34 contractors and 16 suppliers, releasing its own magazine twice a year. The association holds 10 meetings annually with a focus of the association on all forms of concrete cutting, including core drilling, wall sawing, flat sawing, road sawing and wire sawing. Safety is given a high priority, although training is not, but those contractors that train staff do receive a specific certification.

In recent years Japan has suffered several natural catastrophes, with a recent large Tsunami on the east coast resulting in the collapse of the Fukushima nuclear power plant. The Tsunami caused 16,000 fatalities, and there are still 25,000 people missing. How to demolish the Fukushima plant is currently being investigated, but as yet nothing has been decided on. It is estimated that it will take up to 40 years to re-establish the nuclear plant.

Japan is quite a long country, over 3000km, and a large number of building and infrastructural constructions are aging and are in need of renovation. Most Japanese bridges were built in the 1950s and 60s, and are in a need of repair, with there being over 700,000 bridges in Japan. As of today, the renovation work has not yet really begun, thus the association is expecting quite a lot of work in the coming years. Providing added impetus is that in 2019 the rugby world cup will be held in the country, and in 2020 Japan will be holding the Olympic games in Tokyo, meaning that a great deal of



infrastructure preparation for these games will be undertaken, benefitting members of the association. During 2018 some €125B (approx.) was to be spent on public works, with €657 (approx.) being set to be invested in government and private construction projects by the end of 2020. This effectively means that the Japanese market is about to boom, but as with many other countries, the recruitment of experienced staff is proving to be problematic. Updated figures can be found in the table.

**More up to date market reports in the future**  
In terms of the other markets in the table, such as Bra-

zil, China, Czech Republic, Denmark, India, Ireland, Italy, Korea, the Netherlands, Poland, Portugal, Russia, Thailand and Turkey, we have no new information at all. Besides these markets, there are several other countries that we know have a very well functioning concrete sawing and drilling industry, including Finland, Norway, Romania, Argentina, Morocco and Israel, just to mention a few. PDi will, hopefully in cooperation with IACDS, invest time, starting from 2019, to annually provide a correct and up to date table that includes figures showing the number of contractors and their total revenues.



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2500-E (Electric)	3150 kg
4000-E (Electric)	4180 kg
5000-E (Electric)	4890 kg
5000-D (Diesel)	4980 kg

### HAMMER COMPATIBILITY

1500-E	150-250 kg
2500-E	350-450 kg
4000-E	450-550 kg
5000-E	550-950 kg
5000-D	550-950 kg

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## Dry cutting solutions for handheld machines

Operating a power cutter means having to deal with dust. However, in many areas wet cutting is not a feasible option. Therefore, Husqvarna Construction Products has developed two new power cutters specifically designed to offer the possibility to cut dry while dealing with the problems of dust contamination.

Although wet cutting is the preferred solution in most applications, sometimes dry cutting is the only option, especially when water is in short supply, or when regulations forbid slurry. With the Husqvarna K 770 VAC and Dry Cut, the power and proven qualities of the lightweight K 770 power cutter are provided, while adding the benefit of dust extraction, with the construction of the blade guard helping dust collection while cutting.

K 770 VAC is equipped with a flexible hose connector that is easily attached to an external dust extractor, providing superior dust transportation and containment. The K 770 Dry Cut is equipped with a cutting arm with an integrated fan. The fan's strong airflow effectively removes any dust, and transports it to a designated bag where it's kept contained thanks to an integrated nozzle. The bag is washable, reusable but can also easily be disposed.

Both power cutters provide a cutting depth of 123mm, with an integrated gearbox which reduces the speed of the blade in order to optimise the removal of dust, either to the external VAC unit or the external bag. Using Husqvarna's dry cutting power cutters helps increase operator health and safety and, at the same time, provides a slurry free workspace, minimising the need for cleaning or preparing the work site.



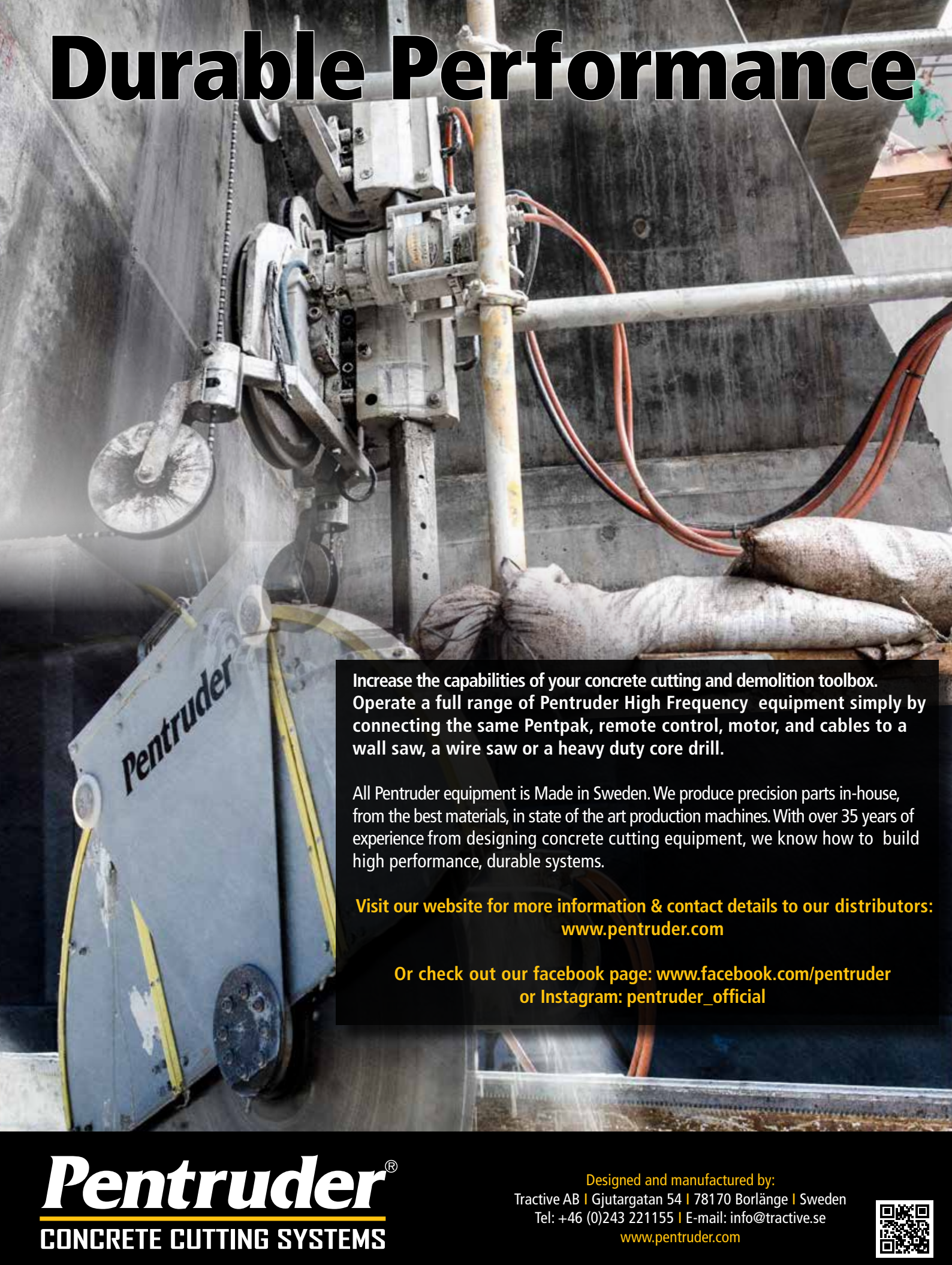
## DOOSAN CONSTRUCTION EQUIPMENT at World of Concrete 2019

Doosan Construction Equipment will display a variety of products at its booth C5577, Central Hall, during the annual World of Concrete exhibition in Las Vegas from 22-25 January 2019. On display will be a DL200TC-5 tool carrier wheel loader with a quick coupler and pallet fork, a DX140LCR-5 reduced tail swing crawler excavator with a quick coupler and DXB100H hydraulic breaker. The excavator will be configured with optional

rubber track pads, a dozer blade and the window guarding package for enhanced uptime protection. It is further fitted with a standard LCD screen which enables operators to continue monitoring the excavator parameters while viewing the rear or side view camera image. Critical machine data appears next to the camera view, with an available side camera with split screen allowing both camera displays to be viewed at once.



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***Where there's smoke, there's fire, so the old saying goes. A corollary for the construction and demolition business might well be where there's infrastructure work, there's a need for compact loaders and skid steers. Jim Parson reports.***

Admittedly, that doesn't roll off the tongue very well, but a recent analysis by Market Research Future, suggests a strong connection between upticks in infrastructure projects and demand for these versatile, power packed machines. The report predicts a global compound annual growth rate of 8% through 2022, with North America leading the way, and the worldwide trend toward urbanisation creating a need for reliable equipment that doesn't require a lot of elbow room.

This all means that the time may well be right to take a fresh look at what's new in the world of compact loaders and skid steers. Equipped with more features than ever before, these machines are more reliable, more powerful, and more comfortable to operate. Through the use of telematics technology, they can also 'tell' you a great deal about your work activity, and spot opportunities to become more efficient and more competitive.

#### **JCB unveils new skid steer and compact tracked loaders**

JCB celebrated 25 years of skid steer production with the launch of seven new large platform skid steer loaders and compact tracked machines. The machines feature a new 'Hi-Viz' boom which is mounted 50mm lower to further improve visibility across the boom to the operator's right

hand side. The boom also features new double tapered pins in both its mounting tower and enclosed quick hitch, boosting strength and durability. The new skid steer and loaders also feature a protected tilt cylinder, allowing the cab to be raised for maintenance with the boom in any position. The tilt cylinder also boasts a larger diameter to boost bucket tearout by 10% on the new 250 and 270 models.

JCB has also made significant improvements to its skid steer and compact loader cab, increasing the door opening angle by 15%, from 40° to 55°, to make entry and exit easier. The door also benefits from a revised door strap and a repositioned grab handle, making it easier to reach from the operator's seat. A new bolted on yellow external grab handle also helps with entry and exit. Cab air conditioning has been improved, with three internal filters with durable metal covers mounted on the outside of the cab. Upgraded heater vents prevent rattle during travel, reducing noise levels for the operator. In addition, a new front screen, with a lighter frame, offers improved forward visibility, helped in part by moving the wiper motor to the left-hand side of the window.

#### **ASV RT-25 compact track loader**

ASV has developed the RT-25 Posi-Track® compact

track loader. Measuring just 1.2m wide, the RT-25 can easily manoeuvre through tight spaces while minimising the risk to property or machine damage. This includes landscaping or construction in high-density housing or confined areas where structures such as fences may otherwise need to be removed to accommodate larger equipment. The unit's 1,703kg operating weight further reduces risks of damage to turf or sensitive surfaces. That low weight also contributes to increased flotation and traction for snow clearing on sidewalks, driveways or in alleyways. A completely smooth turf track is also available to minimise the risk of damage to manicured lawns and golf course greens. The RT-25's compact size makes it an optimal addition to rental fleets as its low weight enable it to be easily transported.

The unit's cab shields the operator from outside elements, providing rollover protection, something uncommon with walk behind and stand on units which are prone to accidental tipping. The RT-25 also features an optional heated cab for additional comfort during winter operation. The machine's industrial 18.6kW Perkins diesel engine and 8.2kph top speed allow operators to achieve maximum productivity by moving around quickly, digging and lifting more. The engine is turbocharged so it can output its full horsepower even



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at high elevations. The Tier 4 Final engine requires no regeneration, exhaust sensors or diesel exhaust fluid.

The RT-25 features a rated operating capacity of 302kg, a tipping load of 862kg, and an 2.5m lift height. ASV builds the machine with the same drive motor as the RT-40, allowing it to achieve the same high tractive effort, which gives it exceptional pushing and digging power. The RT-25's quick-attach suits a variety of available attachments. As with all of their models, ASV equips the RT-25 with direct drive pumps, eliminating labour intensive belt servicing required with belt driven pumps. The direct drive pumps along with the machine's large line sizes and hydraulic coolers transfer more flow and pressure directly to the attachment and prevent power loss, making for a highly productive machine despite its small engine size.

ASV's undercarriage allows customers to use the RT-25 efficiently year round thanks to its control, flotation, traction, and pushing power in steep, wet, muddy and slippery conditions. Its 'Posi-Track' loader system features a flexible rubber track with internal positive drive sprockets to provide superior traction and track life. 'Posi-Track' loaders feature as many as four times more ground contact points in their tracks than competitive steel embedded models, spreading the unit's weight evenly, resulting in lower ground pressure and extra flotation on delicate surfaces. The RT-25's large number of contact points and guide lugs also virtually eliminate the risk of track derailment.

#### Kubota SVL75-2 with high flow

Kubota Tractor Corporation's SVL75-2 high flow compact track loader offers increased hydraulic horsepower,



and expanding multi-tasking capabilities for a wide variety of attachments on the jobsite. Boasting a 55.4kW four cylinder, direct injection and turbo charged Kubota diesel engine, it is equipped with a common rail fuel injection and a 'Diesel Particulate Filter' (DPF) system. The new SVL75-2 meets Tier 4 emissions standards and matches reduced exhaust emissions with enhanced fuel economy.

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

#### New from John Deere

Combining speed, precision and lift capacity, the new John Deere 344L compact wheel loader provides productivity for material handling, landscaping, snow removal and construction customers year round. Industry exclusive features on the 344L help operators move faster and remain comfortable on the job site while increasing machine uptime. The 344L offers a faster travel speed with smooth auto shift technology up to 40kph, making it ideal for users with larger job sites to traverse. The Articulation Plus steering system on the 344L allows operators to lift more during turns, whilst its design features an articulated frame plus rear wheel steer, providing a tighter turning radius, improved stability and additional lift capacity.

In addition, the newly designed loader arms and coupler provide better parallel lifting of attachments and increased visibility, especially when using forks. With a full turn tip load of 5,738kg, customers are able to lift heavier loads and can keep more material in the bucket without making adjustments. Knowing that a comfortable operator is a productive operator, the 344L features a new cab design. A comfortable air ride, high back seat to reduce operator fatigue, while heating features keep workers in cold conditions focused on the job. More space in the cab and in-

creased visibility to the loader arm and bucket improve overall efficiency, with the 344L also equipped with pivot and rear oscillation to provide a smoother ride.

To increase uptime, a redesigned engine layout and cooling package provide increased airflow for superior cooling, reduced debris penetration risk, as well as easy access to ground level service points. Reversing fan capabilities keep customers in high airborne debris areas running longer. A new FT4 Deere engine provides serviceability. Proprietary shift logic reduces operating costs by better retaining material with smooth shifts and decreases operator fatigue. Rim pull control extends tyre life by allowing customers to adjust the torque of the machine to the conditions of their job sites. Contractors looking to get the most out of their 344L wheel loader can also rely on Jelinek telematics, which provides real time data and health prognostics to suggest maintenance solutions that decrease costly downtime. Remote diagnostics enable a dealer to read codes, record performance data and even update software without a trip to the job site.

John Deere has also added an exclusive on board grade indication option on the large frame G Series skid steers (330G and 332G), and the large frame G Series compact track loaders (331G and 333G). Available as a factory or field kit option, the new feature is ideal for job sites that involve levelling and slope work.

The industry exclusive integrated on board grade indication option provides operators with an accurate readout of the cross slope and main fall slope of the machine. The machine cross slope and main fall slope information is displayed in real time through the machine's main display monitor, with the readout being easily configured to display as either percentage or degrees depending on preference.

The absolute and relative slope readouts provide enhanced information to the operator for specific applications. The absolute value readout is useful for providing information during general grading applications that do not need a local grade reference, with the relative value readout being well suited for operators looking to alter grade relative to an existing or reference grade.

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### Takeuchi TB2150 is the largest in its line up

Takeuchi-US has launched the TB2150 hydraulic excavator, which is completely redesigned from the ground up. The 15,640kg TB2150 replaces the TB1140 Series 2 excavator to deliver greater functionality, performance, comfort, and serviceability. The TB2150 offers a maximum digging depth of 5.5m, maximum dump height of 6.2m, maximum reach of 8.7m, and maximum bucket breakout force of 10,065kg.

Powered by a Deutz TCD 3.6l turbocharged diesel engine that is U.S. EPA Final Tier 4 emission compliant, the TB2150 produces 85kW, a 10% increase over the previous version. The engine utilises a DOC+SCR diesel exhaust after treatment system that requires the use of diesel exhaust fluid (DEF).

The operator's station has been completely revamped with an automotive style interior that is operator friendly. A spacious cabin features a heated high back air suspension seat, and the new colour multi information display keeps the operator informed of machine performance. In addition, the excavator includes boom and arm holding valves, an overload alarm, and a new rear view camera to view objects behind the machine on a colour monitor.

Serviceability and uptime have been improved by simplifying access to key maintenance. This includes a nearly 5% increase in fuel tank capacity and the engine does not have a diesel particulate filter (DPF) to maintain. In addition, the machine comes as standard with Takeuchi's new telematics system, Takeuchi Fleet Management.

[www.takeuchi-us.com](http://www.takeuchi-us.com)

### Size matters with Gehl's V420

Gehl has introduced the world's largest skid loader, the V420. This machine features a Tier IV certified Deutz 89kW engine and 1,905kg of rated operating capacity. For added performance for large jobs, the V420 offers 480J of torque. With an operating weight of 5,291kg the V420 is the largest skid loader that is offered on the market today. It comes standard with cab, heat and air conditioning; 14 pin connector for easy attachment use; two speed for travel around the jobsite, and Gehl's patented Hydraglide for a smoother ride and less material spillage from the

attachment. A vertical lift path of almost 3.7m allows for excellent dumping and loading performance.

The V420 skid steer is configured to be a true tool carrier, coming standard with the features needed to operate attachments such as mulching heads, cold

planers, rock wheels, and so forth. High flow auxiliary hydraulics is standard, and offer hydraulic flows up to 155l/min for optimal performance. Five easily accessible auxiliary hydraulic lines with flat face couplers are available on the front of the machine near the operator's station for easy access.

The V420 cab is spacious and comfortable for the operator, with a suspension seat and pilot joystick controls. Excellent visibility is possible through a large, domed glass front door and wide side windows that can be opened for added ventilation. A foot or hand throttle allows the operator to easily increase travel speed or machine functions, and an optional rear view back up camera provides increased visibility to the rear of the machine. Available in February, a radio with hands free Bluetooth allows for the operator to make calls or easily stream music from another device for a customised environment.

### Doosan to debut new tool carrier at World of Concrete

Doosan Construction Equipment will display a variety of products at booth C5577 during the January's 2019 World of Concrete exhibition. Front and centre will be the 106kW DL200-TC-5 tool carrier with a parallel lift linkage system. With increased visibility down the centre of the parallel lift arms, operators can clearly see the ground, truck or work area in front of the machine when placing loads. In addition, the system keeps the work tool flat as it is lifted rather than rolling back; an advantage when lifting pallets and other loads that need to stay level.







The 11,700kg machine features a hydrostatic transmission, giving operators more power, improved fuel efficiency and better precision while working. Operators can choose between three power modes - power, standard and economy - that adjust the maximum engine rpm. Unique to the hydrostatic drive system, the engine rpm is not directly correlated to the machine's travel speed, so the maximum travel speed remains unaffected. Dump height from the bucket edge is 2.7m, with 100kN of force.

In addition, wheel loader operators can choose from three traction modes - max, traction control and S mode - to easily adjust traction force to match job-site conditions for more efficient operation in digging, stockpiling and loading applications. The machine is also available in a high lift option for additional lift height and reach to more easily load materials such as cement into high sided trucks.

[www.doosanequipment.eu](http://www.doosanequipment.eu)

#### Attachment news from Bobcat

Bobcat is launching the new WS-SL20 self-levelling wheel saw, designed to cut efficiently through asphalt, rock, and concrete surfaces. The WS-SL20 is approved for use on the Bobcat S630, S650, S770, and S850 skid steer loaders, and the T590, T650, T770, and T870 compact track loaders. The WS-SL20 has a variable segments wheel, which allows operators to quickly change the width in four steps between 50mm and 120mm in the field, instead of replacing the complete wheel in a workshop, saving approximately 10h in the process. The self-levelling feature on the WS-SL20 allows the attachment to follow and adapt to the contours of the ground, and the new

design means that a trench cleaner is no longer needed.

Utilising well proven Bobcat components such as the ACD (with Bobcat software) and valve block components, the new wheel saw has an integrated stabilisers system and a standard rubber shield for stone ejection/dust reduction. A water kit option is available for dust reduction. Removable deflectors are also a standard feature, allowing the WS-SL20 to operate as close as possible to the pavement edge.

Bobcat has also announced a new line of planers including the 500mm PSL50 and 1,066mm PSL120, which are designed for use with Bobcat high flow compact loaders. The 870kg PSL50 offers the same features as the existing PSL60 model with self-levelling, side shift and tilting. The new 1,145kg PSL120 shares the same features as the existing PSL100 model, with self-levelling, side shift and tilting, being ideal for road maintenance, where the increased width can provide 20% more productivity. The PSL50 and PSL120 planers offer cutting depths with a standard drum of 170mm and 130mm and maximum cutting angles left and right of +/- 15° and +/- 8°, respectively. Both planers are compatible with the Bobcat water kit, which also comes in two new versions to match the PSL50 and PSL120.

In addition, the fully hydraulic design of the self-levelling planers ensures all functions can be controlled from the operator seat. The self-levelling system also offers the advantage of maintaining a constant planing depth, independent of the position of the planer, even, for example, when the loader lift arm position changes, or when the loader drives over bumps or debris. The new PSL50 self-levelling planer is approved for use on Bobcat S530H, S550H, S570H, S590H, S630H,

S650H, S770H, and S850H skid-steer loaders; and the T590H, T650H, T770H, and T870H compact tracked loaders. The PSL120 1,200mm planer can be used on the S630H, S650H, S770H, and S850H skid steer loaders as well as the T650H, T770H, and T870H compact tracked loaders.

A rear camera kit is now available for Bobcat skid steer and compact track loaders, providing the operator a continuous rear view of the machine to prevent contact with obstacles that may damage the loader and its components. Specifically designed and developed for compact loaders, the rear camera kit includes a 109mm LCD colour monitor with a LED backlit screen, wiring harness, mounts and a tailgate mounted camera that offers a 118° horizontal viewing angle and an 89° vertical viewing angle. Multiple screen and camera settings enhance the display image for optimal viewing in both light and dark conditions. The system is integrated into the loader, activated when the ignition is turned on, and runs continuously as the loader moves in both forward and reverse motions. The display's integrated circuit protects the system against over and under voltage, spikes, ripples and load dumps.

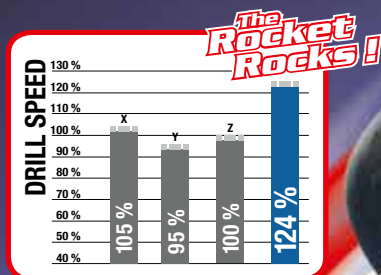
Shock and vibration resistant, the camera and display are qualified for all applications, and the kit provides heavy duty metal housing and a rubber backlit keypad to protect components from hazards. An anti-glare, scratch resistant screen gives operators an optimal display image. The system is rated for both dust and water exposure, and the camera's internal heaters remove condensation, snow and ice from the lens so operators have a clear view in all weather conditions and temperatures ranging from -40°C to +85°C.



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# DELETE

## pulls a nifty inner city job

*Finland based Delete is one of Europe's brightest demolition stars. A young company by the industry's standards (Delete was established in 2010), it has been developing by leaps and bounds during the current decade. Now the Delete Group incorporates 40+ companies focusing on demolition, recycling and industrial cleaning. The contractor, which operates throughout Scandinavia, invited PDi to one of its ongoing projects in Finland. Andrei Bushmarin reports.*

Located in the eastern part of the country, Mikkeli is a quintessential Finnish town surrounded by a score of lakes. An interesting fact about this quiet unassuming place is that during World War II it served as the headquarters for the Finnish army. Marshal Mannerheim's personal railway car, which he used as a command post, is now on display, parked next to Mikkeli station. Also in close proximity to the train station and highway five,

there once stood a six storey grain mill and a battery of silos that Delete was contracted to pull down.

### Going against the grain

The grain milling facility was built in 1921 for wheat grinding and flour processing purposes. Added in 1963 are 45m silos which have dominated the vista of the predominantly low rise surroundings ever since. Due







(Left to right) Petri Saikkonen (Delete's Project Manager), Jarkko Hyttinen and Jyrki Kurronen (representatives of Mikkeli's city council) and Ismo Jaatinen (a foreman with Delete).



For the high-reach part of the project, Delete selected a customized Liebherr 974 excavator equipped with a 42-meter boom.

to this, the authorities originally wanted to save the buildings as city landmarks. However, that plan was scratched once it was learnt that the silos had been infected with microorganisms, and the grain mill was already dilapidated beyond rehabilitation. A difficult decision was then made to demolish the entire 10,730m<sup>3</sup> complex. A number of specialist contractors bid for the job, but the city council chose Delete on the grounds of its job specific expertise and the most competitive bidding price.

### Separating the wheat from the chaff

Since the industrial complex was located bang in the city centre, next to the highway and train lines, Delete started out in the end of September by fencing off the job site and rerouting the traffic. The next task involved the removal of asbestos from inside the grain mill. Once the mill was fully demolished in late October, the debris was piled up next to the silos to elevate the ground level for a high reach demolition excavator to operate from. For the high reach part of the project, Delete selected a customised Liebherr 974 excavator equipped with a 42m boom, and a Volvo 480 demolisher capable of reaching up to 28m. The attachments – a demolition shear, a concrete crusher and a hydraulic breaker for the subsequent dismantling of the foundations - were supplied by Arden Equipment. A Cat 323 excavator was also brought onsite for general excavation and material handling purposes, with the top down demolition of the silos beginning in earnest in mid-November. A demolition crew consisting of two excavator drivers, a project

manager and a foreman would work the 7a.m to 7p.m. shifts to take down the silos one by one.

### Zero mistake performance

Although not particularly large scale, the Mikkeli project is rife with challenges. The sheer height of the silos towering above every other edifice in town is itself daunting. On top of that, the silos stand next to busy traffic lanes and other buildings. Underneath and around the site there are electric cables and plumbing pipes that need to be left intact, with the buildings' thick foundations having to be demolished quickly and efficiently while keeping the noise and vibration levels to a minimum. As the project unfolds, the Delete team led by project manager Petri Saikkonen keeps successfully overcoming all the said obstacles, with representatives from the Mikkeli city council, Jarkko Hyttinen and Jyrki Kurronen, confirming this to PDi. In particular, Jarkko Hyttinen was stated that, "it was very satisfactory for him to see a zero mistake performance by the Delete crew".

### Environmental footprint

Being an environmentally conscious company, Delete recycles everything it demolishes. All materials get separated onsite first, and then are transported to a nearby waste management site, or to Delete's own recycling facility near Tampere. According to the company, its material reutilization rate reaches 99.2%. For every job site, the Finnish contractor can measure the carbon footprint using an in house carbon footprint calculator based on the EN 15804:2012 standard. The calcula-

tions take into account emission and waste reports. The emission report estimates energy and fuel consumption, equipment transportation to the job site, and emissions generated by transportation and treatment of construction waste, accounting for different classes of waste and their delivery locations. The Mikkeli site is no exception: once demolition of the silos and the foundations is finished, the resulting debris will be partly used as a fill up material, and partly moved to the Metsäsairila waste treatment facility owned by the city for further recycling. The project, which is proceeding to schedule and within the specified budget, is slated for completion by the end of February 2019.

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





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## National Flooring Equipment exhibits at World of Concrete

National Flooring Equipment will return to World of Concrete in 2019 to exhibit machinery, equipment and tools. The show, which takes place at the Las Vegas Convention Center from 22 to 25 January, boasts more than 1,500 exhibiting companies and 58,000 registered industry professionals. National Flooring Equipment is exhibiting at booth 0805 in hall five.

At the show, National Flooring Equipment will showcase its latest product, the Ion4K. This machine is a revolutionary step forward in jobsite dust control. It creates clean air by removing harmful particles and odours from the environment and knocking floating dust to the ground. This not only allows for a cleaner worksite, but also improves health and safety for on-site workers. Alongside its range of scrapers, shot blasters and grinders, National Flooring Equipment will also exhibit its three power hammer trolleys, which are built to fit the most popular styles of jack hammers.

"World of Concrete is an opportunity for National Flooring Equipment to network with customers and partners, some of which travel across the world to attend," commented Connie Johnson, vice president of marketing. "For this reason, it's important for us to attend every year. We've always received a great response to our products at the show, and expect this year to be no different with our most up to date range of machines, tooling and equipment available to see."

"World of Concrete also gives our international customers the chance to meet our sales team here in the US. Our experts will be available on the stand throughout the show to help with all kinds of questions related to choosing a machine, finding complementary tooling and using a piece of equipment efficiently."



## YANMAR'S

*industrial diesel engines achieve EU Stage V emissions standard*

Yanmar Co., Ltd. has released a list of diesel engines manufactured by the company that are now certified for compliance with the European Stage V (EU Stage V) off road emission standards set to come into effect in 2019. The EU Stage V standards to be introduced in Europe are one level stricter than existing, and will be implemented during 2019 and 2020 being aimed at limiting the impact of emissions. The 24 certified diesel engines sold in Europe are installed in a variety of industrial equipment, such as construction

and agricultural machinery. For models with an output of 19kW and above, the permitted values for NOx and PM emissions are one level stricter than existing standards. In addition, new PN standards have also been set, making the new emissions standards generally the strictest in the world. Some diesel engine models operating in the European market now require engine management systems to limit operation in the event of a malfunction in emission control systems, or if the engine has been illegally modified.



## New brazed diamond tools for sanding wooden floors from KLINDEX

Italian company Klindex has announced the recent launch of a range of new tools for the sanding of wooden floors. The new tools have been designed to carry out the first sanding step before proceeding with sand papers, and specifically developed to considerably speed up the first step to level surfaces, and to eliminate edges or deep scratches, being faster than traditional machine belt or drum sanders.

The range has a long operational lifetime (up to 1,500m<sup>2</sup>), being ideal for removing glue, coatings and paints, whilst reducing the amount of sand paper required, whilst making the floor flat. Suitable for use on any type of wood or wood installation, the new tools are able to prepare the substrate, and offer better adhesion before laying a new wooden floor.



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## REMOTE CONTROLLED

# DEMOLITION ROBOTS

***Here PDi takes a look at some the latest developments in remote controlled demolition robots which have been launched during 2018, as well as reporting on the expected growth of the construction robot market worldwide until 2025. PDi's Mikael Karlsson reports.***

During 2018 Brokk has undoubtedly been the most active company when it comes to introducing new remote controlled demolition robots. The Swedish manufacturer introduced four new models at Intermat in April, and very recently the company for the first time ever also introduced a new line of hydraulic breakers.

### Brokk 170

The Brokk 170 replaces the Brokk 160 in the product line up. Taking the best from Brokk 160 and adding the full Brokk SmartConcept, SmartPower, SmartDesign, and SmartRemote, the Brokk 170 is a purpose designed demolition machine for the construction industry. With a 24kW SmartPower electric powertrain, this lightweight machine comes with 15% more power than its predecessor. It also comes with the new Brokk BHB 205 breaker and the new Darda CC440 crusher. However, it retains the same compact physical dimensions of the Brokk 160 and its wide range of attachments is fully compatible between the two models.

### Brokk 200

The Brokk 200 has 15% longer vertical and horizontal reach while retaining most of the compact dimensions of the Brokk 160. The extra chassis length and machine weight ensures excellent balance, even when wielding the heavier and more powerful attachments. The Brokk 200 is said to represent a new standard in compact remote controlled power being ideal for heavy duty but difficult to access projects and applications.

### Brokk 300

Brokk 300 comes with the more powerful Brokk BHB 455 breaker which is designed to deliver excellent hitting power. Equipped with the new generation of Brokk SmartPower technology, power output is increased to 37kW delivering the hydraulic flow and pressure to fully power the heavier and more powerful attachments it is paired with. Weighing 500kg more, the Brokk 300 still retains the same width and height giving it access to the same confined work sites. A new arm system increases vertical and horizontal reach to an impressive 6.5m and 6.1m respectively.

### Brokk 520D

Finally, the Brokk 520D has been developed to establish a new standard for diesel powered demolition robots with a larger hydraulic breaker that packs 40% more

hitting power than the Brokk 400D it is replacing. This eco-friendly 5t machine comes with two diesel engine options: a Stage 4/Tier 4 Final Kohler unit meeting the new EU and North American emission standards, and a Kubota model available for the rest of the world.

The new Brokk 520D is slightly heavier and longer than the old Brokk 400D, boasting a bigger BHB 705 breaker and a 250mm longer work reach. Its heavier duty boom system and increased hydraulic performance means that it can handle the same wide range of heavier, more powerful attachments that are already available for the Brokk 500 released last year. To top it off, the Brokk 520D also adds the clever improvements of Brokk SmartDesign that will simplify daily maintenance and increase machine uptime.

### New hydraulic breakers

The new Brokk hydraulic breaker (BHB) series of eight breaker models start with the 50kg BHB 55 breaker for the compact Brokk 60 demolition robot, and then goes up to the 700kg heavy and powerful BHB 705 for the recently introduced Brokk 500 and Brokk 520D demolition robots. "As the leading benchmark in the industry for compact demolition, it makes sense for us to now take the step to introduce our own line up of powerful hydraulic breakers to match the power and performance of unique demolition robots," says Martin Krupicka, president and chief executive of Brokk.

As with Brokk's demolition robots, a key feature of the Brokk hydraulic breakers is their power to weight performance. The breakers are lightweight and compact, yet powerful like heavier breakers from other brands. The new Brokk series of hydraulic breakers are perfectly matched with their respective Brokk demolition robot. Since the demolition robot and the breaker are designed to work at their respective peak effect together, Brokk believes its ranges now have the ability to deliver even more demolition performance.

### Growing construction and demolition robot market

The worldwide consulting and research organisation, QYResearch, has recently published the 'Global Construction Robots Market Research Report 2018'. This mainly covers the global construction robots market status and forecasts from around the world. The QYResearch authors conclude that currently remote controlled

demolition robots are dominating the construction robots market, having over 90% of market share in 2016.

Other kinds of construction robots on the market are, according to the report, construction 3D printing robots, bricklaying robots, and remote control rescue robots etc. These robots are mainly used in the metallurgical industry, cement industry, building, tunnelling, mining and earthquake disasters. The global construction robots market was valued at approximately €160M in 2017, and is expected to reach €336M by the end of 2025, growing at a compound annual growth rate of 10% during 2018-2025.

Europe and North America are dominating the construction robots market today, however in future China and Japan will play more important roles. This is especially so in China, where the market is extremely vibrant, and more players are looking for the market opportunities.

### Euro Implementos RDC 15.10

The Spanish family company Euro Implementos in Barcelona manufactures a large range of construction equipment and attachments. The family company has recently launched the demolition robot RDC 15.10, which is suitable to work safely in small or dangerous environments. It is a 1t, 15 kW multipurpose machine with, for example, quick coupler, cylinder protections and remote vision camera as optional. The new RDC 15.10 robot has slewing speed of 10sec/360°, max slope angle 30° and max transport speed of 2,5km/h. The hydraulic system capacity is 60l.

Euro Implementos has today a range of three remote-controlled demolition robot models: RDC 22, RDC 22M-D and the new RDC 15.10.





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Dr Reiner Schulze delivered the first drilling motor with PQ6 connection to Michael Findeis in the presence of Thomas Springer.



Findeis GmbH receives first drill motor and drill bit set with new

# TOOL FREE SYSTEM

***Michael Findeis, chief executive of Betonbohrservice Findeis GmbH, is now the proud owner of the world's first drill motor with the innovative tool free PQ6 drill bit connection.***

Along with Thomas Springer, president of the Fachverband Betonbohren und-sägen Deutschland (Concrete Drilling and Sawing Association Germany), he received the machine together with a set of new core bits of the same system from Dr Reiner Schulze in mid-July. As the manufacturer's representative on the board of the association, and member of the VDMA (German Engineering Federation), Dr Schulze had a major influence on the development of the PQ6.

In the process of introducing the new system to the market, Dr Schulze also took into account the views and requirements of manufacturers and users before putting the first edition of the drill bit connection into production. "Availability among the individual manufacturers still varies a little at present. To my knowledge, three manufacturers are currently able to deliver immediately. I assume that more will follow soon," said Dr Schulze.

## A pioneer for a new system

Michael Findeis plans to use the PQ6 system as a 'first mover' in daily business. "I am fully convinced of the new technology. The tool free replacement of the drill bit is easier to handle and, above all, faster. I assume that we will be able to cut the average crown changing time in half. The resulting time saving streamlines the work process and allows a significant increase in efficiency." The first step in use was to completely equip a vehicle with the new system, and in order to be ready to deal with most everyday tasks, Dr Schulze promised Michael the prompt delivery of the first drilling motor suitable

for hands free operating. "We don't have to carry two systems with us, the available adapter can also be used for old core bits," explains Michael Findeis pragmatically. "We will then be able to change our pool of drill cones with a PQ6 connection step by step in the future."

## Impressive features

The tool free drill bit connection with its six fold polygon profile makes it easy to disconnect the drill bit by hand without technical equipment. When working horizontally, the drill bit can be placed on the spindle of the machine so that both hands are free to close the nut. When the drill bit is loosened, it remains on the spindle for the time being, making demounting easier. "Due to the ergonomically advantageous handling during assembly and disassembly, both the user and the machine and drill rig are protected," explains Thomas Springer. "In the end, the risk of injury to the employees is reduced, as jammed drill bits are a thing of the past when using the new system. In addition, the connection is convincing due to its short design, low weight and high concentricity, because the polygon enables a 100% frictional connection. The high torque generated is transmitted backlash-free and vibration-free."

## From market maturity to market penetration

"The manufacturers are now also called upon to ensure a successful market launch," states Thomas Springer. "They can signal the system's readiness to deliver to their customers and actively approach the users. The

association is also promoting tool free drill bit connections to its members. The first machines and core bits were presented at the annual general meeting in Hamm. The system will also be presented to users at the regional meetings in the autumn." And in order to make his own contribution to the introduction of the PQ6, Thomas Springer ordered equipment with two drill motors and a drill bit set from Dr Schulze on the same day.



The new PQ6 connection: six fold polygon profile.





## Shannon Valley invests in Hitachi to service thriving local market

Shannon Valley has expanded its fleet of Hitachi machinery to keep pace with market growth in the Republic of Ireland. Based at Donabate, County Dublin, the contractor has bought a wide range of Zaxis-5 and -6 excavators, and ZW-6 wheel loaders, as the number and size of its projects have increased. The company was founded by Michael English in 1991, and now employs Michael's three sons, Mick, David and Dermot amongst its large workforce.

To have the flexibility to manage large scale projects, Shannon Valley has a large fleet of construction machinery at its disposal. It currently operates a wide range of around 100 excavators (from 1t to 80t), as well as wheel loaders, various trucks, bulldozers, and crushing and screening equipment (among others). Michael purchased his first Hitachi excavator (a UH063) in 1989, and now there are approximately 50 Zaxis excavators and ZW wheel loaders in the fleet.

"We have bought more than a dozen machines this year, including the ZX48U-5 and ZX33U-5 mini, ZX225USLC-6 and ZX250LC-6 medium and ZX690LCH-6 large excavators," says David English. "Dublin is buoyant and we have other site development work being carried out in the south of the country. This is a highly competitive market, in which every penny counts and the deadlines are always tight. We have continued to buy Hitachi machines, because the whole range is strong, particularly the large excavators for their durability and reliability. Some of our operators prefer Hitachi excavators because they are smoother to operate and more precise than other brands. We have also found that Hitachi wheel loaders are trouble free and have developed well over the years. Hitachi equipment is easy to maintain and we have an excellent working relationship with our dealer TBF Thompson (a sub-dealer of Hitachi Construction Machinery UK)."

Shannon Valley provides an array of solutions, ranging from demolition and road construction, to bulk excavation and drainage. As well as construction related activities, there are also plant hire, haulage and quarrying services available within the Shannon Valley Group. In addition to these activities, Shannon Valley is responsible for the blasting, excavating, crushing and screening of L Behan Aggregates & Recycling Ltd's quarry at Rathcoole, which is an invaluable source of high quality, low sulphur limestone that is used as aggregates for foundations and drainage work.



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(Left) Ramón García Jr., Euro Implementos's managing director and (right) Richard Fielding, DHS's general manager.

**Euro Implementos heats up competition in**

# DEMOLITION ROBOTS

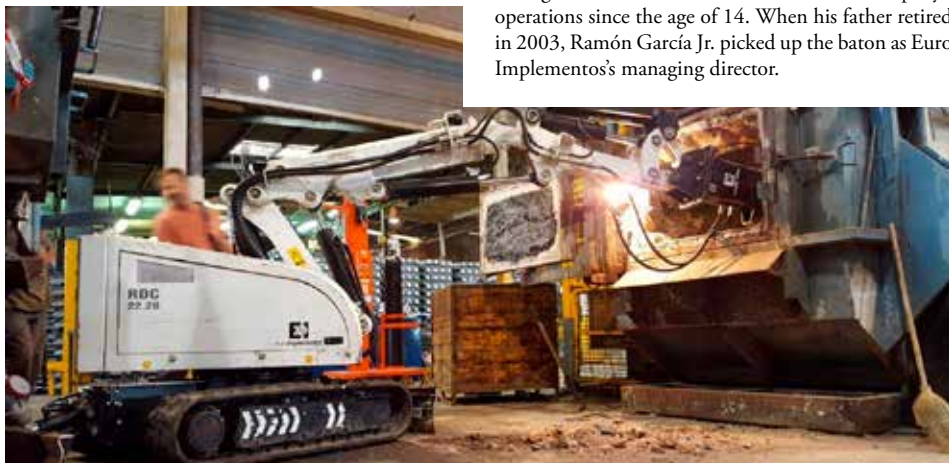
***The robotic demolition market is, for the want of a better word, a tightknit one. Once dominated by Brokk which pioneered the technology, today it is seeing the rise of more and more new players. Following in the footsteps of Husqvarna, Toptec and Avant Tecno, a new wave of manufacturers is joining Brokk's competition. Among these is Catalonia based Euro Implementos, which may be considered challenger 'numero uno'. Andrei Bushmarin reports on his visit to the Spanish manufacturer.***

Catalonia is an El Dorado of a land that has it all; drop dead gorgeous mountain landscapes, the glittering Mediterranean Sea, a treasure trove of history and culture and rich culinary traditions. If these were not enough, the area comes underpinned by a well-developed industrial sector represented by such innovative companies as Euro Implementos.

## Ramón I and Ramón II

A family owned enterprise, Euro Implementos was founded by Ramón García Baztán in 1993. Ramón cut his teeth in the heavy machinery industry while working as an area sales manager for Caterpillar Spain back in 1980s. However, as a man with an entrepreneurial spirit, Ramón wanted to try his hand at running his

own business, so he ventured out, and started importing skid steer loaders and attachments produced by a now defunct German company. Before long, Ramón realised that the attachments lacked in quality, having been manufactured to less strict agricultural standards. The result led to Euro Implementos – a local supplier of high quality work tools - being born. A range of attachments and implements produced by the fledgling manufacturer was extensive, ranging from broom buckets to dozer blades to graders. The idea proved successful, and the Spanish company began to grow. The growth accelerated further when a few years later Ramón García's son, Ramón García Jr., joined the company on a permanent basis. An alumnus of UAB (Universitat Autònoma de Barcelona) with a degree in economics and business management, he had been involved in the company's operations since the age of 14. When his father retired in 2003, Ramón García Jr. picked up the baton as Euro Implementos's managing director.





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**Electric engineer Josep Crespo – the main creative force behind the development of demolition robots.**



### Here comes the robot

In 2013, Euro Implementos broke new ground when it decided to take a leap of faith and diversify into the robotic demolition business. Confident of its manufacturing prowess, the Euro Implementos's team, led by electric engineer Josep Crespo, set about developing the very first robot. Having developed and produced thousands of skid steer backhoe attachments, they had little trouble with designing the robot's arm. Remote control and hydraulic drive units also came naturally due to the fact that for years remotely controlled pedestrian and static booms have been one of the company's core specialities. Nevertheless, it took the team 18 months to fine tune the machine, but, as luck would have it, their first attempt was far from a flop. Weighing in at 2t, the RDC 2220 boasted modular construction, powerful hydraulics, customised controls and a high performance cooling system. Buoyed by the market's enthusiastic response to the machine, Euro Implementos went on to build another six models in the 2t weight class. In 2017 its RDC 22M-D model, which is said to be the world's biggest diesel powered compact demolition robot, was recognised with a golden award at Smopyc international exhibition in the 'New Machinery' category.

### 25 year international track record

A quarter of a century on, Euro Implementos remains a family owned company, with a staff of 20 loyal employees. All products are manufactured at its 12,000m<sup>2</sup> facility in Súria, near Barcelona. The core customers are OEMs, machinery dealers and big rental companies based in over 30 countries across the globe. Strategically, the company focuses on the international market, with domestic customers accounting for only 30% of sales. For its demolition robots, Euro Implementos has built a worldwide network of importers that reaches every continent. The machines have already been showcased to international audiences at the bauma, Conexpo, Smopyc and Conexpo Latin America trade shows. The robot range will soon be complemented with the addition of a new demolition specific product, but no further details are yet available at this stage.

### The UK angle

Great Britain is in many senses a very particular country, and so is the UK market. In order to successfully operate there, a supplier must be aware of the local contractors'



**The 2t RDC 22 M-D demolition robot.**

specific wants and needs. Based in Farnborough, some 40km from London, Diamond Hire & Sales has an extensive background in robotic demolition, having been providing specialist contractors with concrete cutting, demolition and surface preparation solutions all over the UK for over 20 years.

Having met Ramón García through his American distributor US Alpine two years ago, DHS management decided to explore the possibilities of offering the Euro Implementos robots to British contractors. Since that time the Spanish manufacturer has developed the RDC

1510, a 1t demolition robot, which is better suited to the UK market's requirements than 2t machines. DHS's general manager Richard Fielding is confident that this model, which his company is trialling now in house, will prove very popular with UK users thanks to such unique features as the full time dual controls. Unlike the split functionality of the existing robot brands, where it is only possible to use either the turret or the legs and tracks at a time, the Euro Implementos machines allow all functions to be engaged simultaneously.

**[www.euroimplementos.net](http://www.euroimplementos.net)**

**All products are manufactured at the company's 12, 000m<sup>2</sup> facility in Súria, near Barcelona.**





NEW RECORDS SET AT

# BAUMA CHINA 2018



***A total of 3,350 exhibitors from 38 countries and regions, an increase of 13% percent when compared with the preceding exhibition year, exhibited at bauma China this year.***

The 330,000m<sup>2</sup> of exhibition space included two new halls, attracting 212,500 visitors (an increase of 25%), with 94% coming from Asia. Stefan Rummel, managing director of Messe München GmbH, was delighted with the results: "2018 was a special year! In the exceptional market environment in China this year, bauma China demonstrated why it has every reason to be called the leading trade fair for the Asian construction machinery market. It set records in all areas. bauma China clearly showed where this industry is heading: smart, digital and more sustainable technologies are the future. We, the organisers from Messe München, are really proud of this opportunity to help shape the future."

Qi Jun, Chairman of China Construction Machinery Association also gave a very positive feedback on the show: "bauma China 2018 was very successful. It has made history

in many aspects: the number of exhibitors, the exhibition space and the total volume of orders made on site. The exhibitors have especially benefited and felt the enthusiasm of users and their expectations for the future." Among the exhibitors, 73% came from China, reflecting the strong presence of Chinese companies in the market. A representative of XCMG said: "bauma China is an important exhibition for the Chinese construction machinery industry, and we exhibited at each bauma China since its establishment. This year's show has larger scale and better quality. Our booth is very busy with a lot of customers from China and abroad." Zou Xuesong, deputy general manager of China Sinomach Heavy Industry Corporation, added: "This year, apart from an unprecedented exhibitor numbers, the quantity of visitors we have reached is also very encouraging. Most of the

visitors are from the Middle East and the Asia-Pacific area."

A greater number of intelligent, digital and green products appeared than at the previous fair, with electro mobility and driverless vehicles being seen as a future trend. Of particular note was Caterpillar's next generation of large excavator models which have boosted efficiency by up to 45%. Sany presented an excavator that can be operated remotely with the help of virtual reality. In the process, the operator has the impression that he or she is sitting behind the wheel. Volvo's 'Co-Pilot' has seen the introduction of a high resolution touchscreen that acts as co-operator. It provides unlimited access to standard Volvo assist functions in collecting real time operational data. The next bauma China will be held at the Shanghai New International Expo Centre from 24 to 27 November 2020.

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## SOIL CEMENT FOUNDATION PROCEDURE DEVELOPED JOINTLY BY **KEMROC AND SCHÖNBERGER BAU**

Based on Kemroc trenching technology, the innovative Schökem procedure for the construction of soil cement foundations has been jointly developed by Kemroc and Schönberger Bau. This uses an excavator attachment which, after penetration into the soil, simultaneously injects and mixes a binder suspension with the soil to create a soil cement structure without the need for any excavation or filling work.

German companies Kemroc GmbH and Schönberger Bau GmbH & Co. KG have developed a new excavator attachment for ground stabilisation. This attachment can treat soil in-situ, without the need for costly shoring or soil replacement. While mixing the soil, a binder material is simultaneously injected into the soil. After a few days of settling time, the treated soil turns into a stable load bearing, impermeable structure. After completion of the first field trials, the homogeneity, strength and impermeability of the soil cement slabs were tested by geotechnical testing company Dipl.-Ing. A. Pampel GmbH (GCE) from Leipzig. Test results confirmed the compressive strength at 3 to 4 MPa.

### **Load bearing foundations for civil engineering**

The innovative so-called 'Schökem' procedure is based on a proven method of soil stabilisation by mixing soil and cement. It conforms to methods specified by planners and contractors, and to the DIN standard for deep soil mixing by the injection of a cement suspension for the stabilisation of soils (FMI) as used in civil engineering projects. In this process, the soil is mixed with an injected cement suspension using a mixing machine that can reach the required depths in the soil. This creates a homogenous, impermeable, frost proof and crack free soil cement slab. Typical applications where the load bearing capacity of the ground needs to be increased by soil stabilisation include road and railway construction, stabilisation of embankments, sealing contaminated areas or in flood defences. Regardless of the application, the process is economical as it eliminates transportation of excavated and fill material.

Working in close cooperation, the manufacturer Kemroc and the specialist civil engineering company

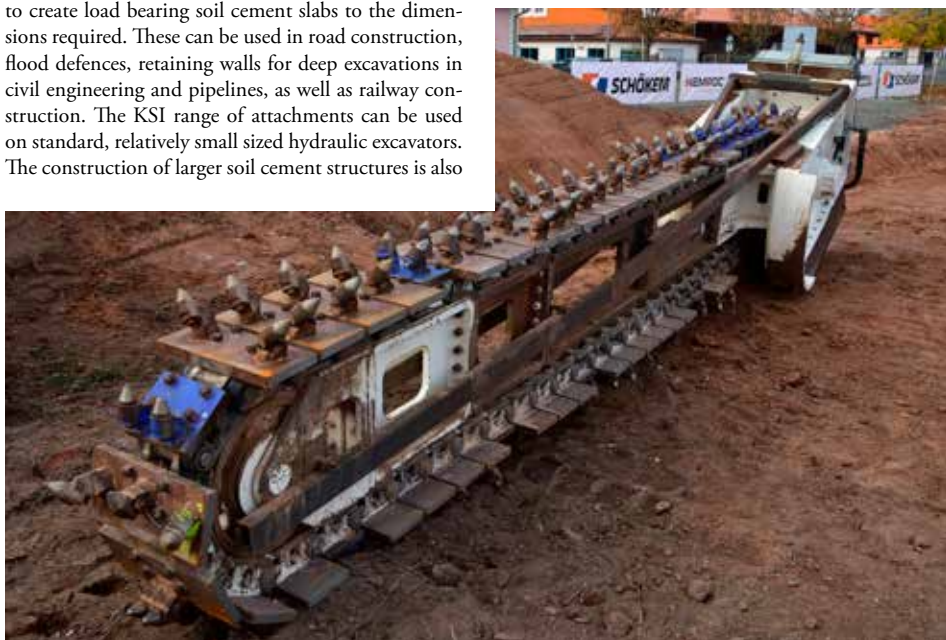
Schönberger Bau have further developed the process. The new 'Schökem' process has made this technology available to operators of standard hydraulic excavators which provide an added degree of flexibility. The new KSI range (Kemroc Schönberger Injector) was developed by modifying the tried and tested Kemroc chain cutter attachment. The cement suspension material is transported to the injection nozzles by hydraulic hoses from the drive unit through channels in the support frame. In modern grout mixing plants (both partners recommend compact, self-contained plants from Gertec GmbH) it is possible to regulate the amount of cement used in the suspension material with a high degree of accuracy. By modifying the amount of cement used according to soil conditions, it is possible to stabilise soils to pre-defined characteristics.

With a set-up time of about two hours, it is possible to create load bearing soil cement slabs to the dimensions required. These can be used in road construction, flood defences, retaining walls for deep excavations in civil engineering and pipelines, as well as railway construction. The KSI range of attachments can be used on standard, relatively small sized hydraulic excavators. The construction of larger soil cement structures is also

possible as the process offers a working range of 500m from the excavator in both directions.

### **Range of sizes and blade lengths**

The new KSI soil stabilising attachment is available in two sizes with a variety of blade lengths. The KSI 5000 drive unit (130kW) can be equipped with blades for 3m, 4m or 5m mixing depth and, depending on the blade length, used on excavators in the 30t to 50t operating weight range. The larger KSI 10000 (220 kW) can be fitted with blades for mixing depths of 6m, 8m or 10m and can be used on excavators in the 45t to 70t weight range. Accessories for both models include mixer extensions (1m), the KRM 80 rotation unit and replacement mixer teeth.





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## HOW TOOLING CAN *complement surface preparation machines*

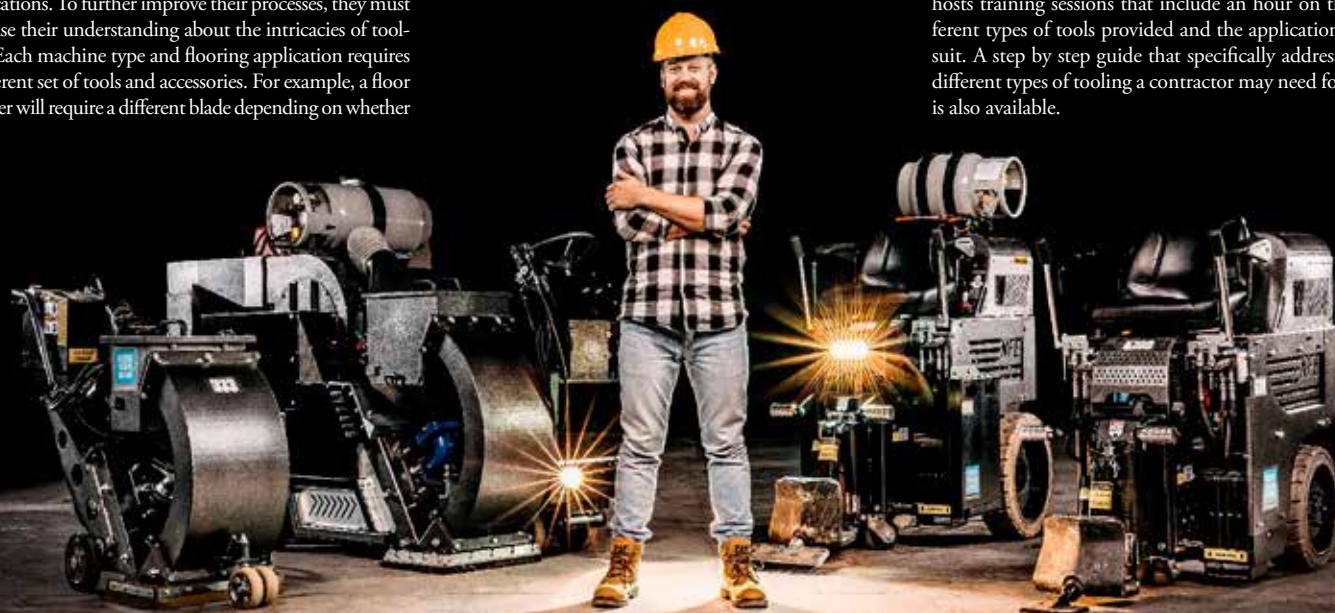
When you plan to hang a picture you need tools such as screws, a drill, a screwdriver and a spirit level. There are so many different types of screws, screwdrivers and other tools there is a chance that you did not choose correctly. Choosing the wrong tool may not prevent you from completing the job, but using a wood screw on a concrete wall will take a lot longer than choosing wisely in the first place. Similarly, in surface preparation, using the right tools can help contractors improve productivity and reduce their time on the job site. Changing opinions Historically, contractors have thought that they needed one or two machines to efficiently remove a floor covering, clean the substrate and prepare it for a new application. As the industry expands, contractors have realised that they need different machines for different applications. To further improve their processes, they must increase their understanding about the intricacies of tooling. Each machine type and flooring application requires a different set of tools and accessories. For example, a floor stripper will require a different blade depending on whether

it is being used to lift up carpet or hardwood flooring. A blade that takes up carpet may be able to take up hardwood flooring but do so less efficiently than a blade tailored to the floor covering.

Bigger is not better. It is a common misconception that the biggest tools will complete a job quicker and more efficiently. Choosing the correct blade, placing it at the right angle and applying the correct pressure will improve productivity on a job site, not the size of the tool. A machine will never be as effective as it is designed to be unless the tooling, accessories and set up are correct. When correct, the tool will stay sharper for longer, take up larger amounts of material and reduce time on the job site.

When purchasing a floor stripper from National Flooring Equipment, contractors will receive multiple tools that can be used with the machine. Contractors should take the time to understand how each tool works and the best applications for different types of tooling.

How can we help? National Flooring Equipment constantly updates its tooling offering to make sure contractors have everything they need for their surface preparation work. A broader range of tooling allows for more versatility and productivity, with tooling based on customer feedback developed to make sure the tools do exactly what is required. Contractors can increase their understanding of tooling by attending machine training courses. National Flooring Equipment, for example, hosts training sessions that include an hour on the different types of tools provided and the applications they suit. A step by step guide that specifically addresses the different types of tooling a contractor may need for a job is also available.





# DOWN WITH DUST

***Every contractor likes the idea of ‘kicking up some dust’, as it usually implies that there’s work to be done. Jim Parson reports.***

On the flip side of that term are the many airborne hazards that result from all that activity, including risks to workers’ health, potential regulatory violations, obscured vision, angry neighbours and so forth. This means that selecting tooling for any job should include due consideration of what dust control tools and technology are best suited.

As with any other construction and demolition tool, contractors can’t afford to simply ‘go through

the motions’ of setting up a dust suppression strategy. What may appear effective at first glance may, in reality, fall far short of fulfilling the desired results. With tight schedules, efficiency, and cost consciousness a part of nearly every job, a contractor can’t afford to divert time and resources to addressing issues arising from an underperforming dust suppression system.

The products profiled below are a good place to begin looking into dust suppression systems. Along with effective performance, the models typically offer the advantage of flexibility and low maintenance for deployment in a variety of settings, plus long, reliable service that will further maximise the investment.

## **EmiControls new V12s**

After the launch of the restyled V22 last year – EmiControls’ biggest dust controller – the silent unit V12s was the next in line to receive a new design. The biggest difference is the size, with the new V12s being much smaller, making it easier to transport and integrate into existing systems, yet with the stability and robustness to operate in challenging conditions. The machine can be started and rotated much faster, angles can be quickly adjusted, and there are three different water consumption speeds available. The water pressure is now making it possible to create an even finer water mist to abate dust more efficiently.

At the same time, all functions known from the previous model are still the same: the specially developed turbine is particularly quiet with a noise emission of 63 dB(A) within a radius of 20m. The turbine works with two speed levels, so it has the possible flexibility to spray fine water mist from 30m to more than 55m. Thanks to a sophisticated valve technology, the amount of water can be controlled by remote control on three levels.



The silent V12s is ideal for work in city centres or areas where noise levels are kept low, such as demolition, all types of quarries, recycling plants, material warehouses, loading facilities, landfills and wood processing. The V12s can be installed on various mobile or fixed bodies, and is available with heating for winter operations. Other features include a horizontal pump with pressure monitoring, automatic emptying for the right water pressure, and an easily accessible water filter for quick cleaning. Special nozzles with ceramic inserts for out of phase spraying are also available.

EmiControls will display the V12s at bauma 2019 in Munich, along with other products providing new and innovative solutions for dust abatement.

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





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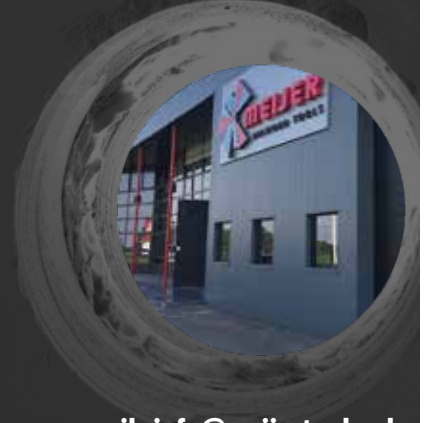
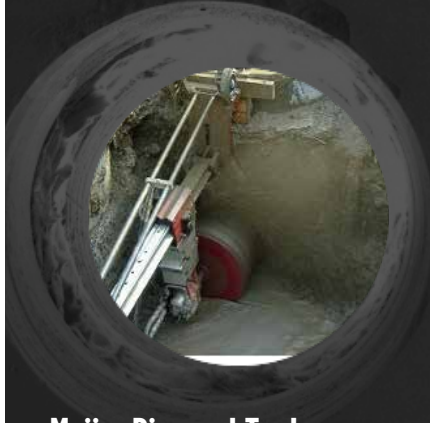
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### **BossTek's new mobile dust suppression design**

BossTek has released the DustBoss DB-30 Fusion, with a new design making it a versatile and transportable atomized mist unit, engineered with a workhorse electric motor and 30kW generator. Permanently mounted on a rugged road worthy trailer, the company's Fusion line up is an effective means of delivering powerful dust suppression technology to sites that lack a convenient power source. Unlike its larger siblings, water is supplied to the DB-30 Fusion by a standard 15.8mm garden hose, so it can be used at any location with a working hose bib. Equipped with an in line 75 mesh, 200micron filter, the unit can also be specified with special filtration to accommodate non portable water sources.

With an adjustable throw angle of up to 50° of elevation, and a range of approximately 30m in calm conditions, the standard configuration includes user definable 359° oscillation, allowing the unit to cover as much as 2,880m<sup>2</sup> with a powerful dust trapping mist. The new design can also be optimised with a Variable Frequency Drive (VFD) to precisely adjust fan speed. An optional dosing pump is available for precise metering of additives to even further enhance particle control. The extremely water efficient design consumes just 9.5l/min.

A touch screen panel for controlling the DB-30 Fusion is encased in a NEMA 3R cabinet, allowing operators to control oscillation, fan and water. The cabinet is constructed for outdoor use, designed to provide protection against solid foreign objects (e.g., dirt), air (dust, emissions), water (rain, sleet, snow), and ice formation. BossTek also offers a full line of surfactants, tackifiers, and door control additives that are fully compatible with the equipment.

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

### **A new addition to Leotech's Motofog line**

Leotech extended its patented Motofog range of

products in 2018 with the MF 60D. This comprises of key features needed for big demolition jobs, such as a powerful diesel engine driving a high pressure pump, making it a fully autonomous unit. The unit is very compact, to the point that it can easily be transported with a common pick-up truck. Once on site, the MF 60D is very versatile, and easy to move and handle.

MF 60D is provided with a spraying head that can be electrically tilted (up-down, left-right), even with an automatic horizontal rotation. A radio remote controller can handle all the main functions, including the possibility to adjust the power and the operative range of the water jet and the engine start-stop. With the MF60D, users can cover a horizontal range of up to 55m, and using the unit's Dual Jet technology, users are able to select between a long narrow jet and a wide and shorter one, to better adapt to the different needs of the construction site.



All these features, compared to the traditional approach with fan based units, represent a huge advantage in terms of performances and results, entailing major economic and time savings. Based in northern Italy, Leotech will show its complete line of Motofog products at bauma 2019 in Munich, Stand C5/138.

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

### **Fogco's high pressure fog and misting**

Fogco has been developing high pressure misting systems and dust suppression products for nearly 30 years. The company's line of Fogco FogCannons is designed for large commercial and industrial dust control applications. These specialised products are said to be unique to the industry, and can provide effective dust suppression for areas up to 23,226m<sup>2</sup>, with all models having the ability to oscillate to 340°. Fogco also offers a standard direct drive or pulley drive pump range, as well as completely customised units. Custom pump options include the addition of variable frequency drive, programmable logic controllers (PLC), 1 phase or 3 phase voltages, multiple zones, and remote control. The pumps can be integrated on site with existing controllers or low voltage signalling.

Fogco's prefabricated fog lines provide several options including robotic welded stainless steel and soldered copper with various different nozzle spacing options. The company also offers a versatile 'do it yourself' fog line using proprietary slip lock fittings and nylon tubing. Fog lines are not always the ideal solution for distributing the 'fog', which led the company to develop a wide range of cooling and humidification misting fans for areas as small as a few hundred m<sup>2</sup> to areas over 325m<sup>2</sup>. The company has also developed several specialised humidity and temperature controllers, standard and cleanable misting nozzles, as well as a dry fog" air injection system making.

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





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

**Find out more: [www.hilti.co.uk](http://www.hilti.co.uk)**







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## **SUCCESSFUL** *underwater decommissioning with 1Diamond and Tyrolit*

As part of an offshore decommissioning project for Fieldwood Energy, one of the largest producers of oil and gas in the Gulf of Mexico, a stub had to be removed within a short time frame in the last quarter of 2018. The platform operator employed the two offshore service providers Manson Gulf and Proserv to carry out the cutting work. After some initial difficulties, it soon became clear that conventional cutting technology would not be sufficient to get the job done. Fieldwood Energy therefore referred to the Norwegian decommissioning company 1Diamond AS, whom in conjunction with Tyrolit, provides respective technology for demanding underwater cutting.

### **Cutting great diameters under challenging conditions**

The task presented included cutting a 50mm thick caisson sleeve with a diameter of 4m as well as 76mm of concrete, and the respective 76mm thick caisson with a diameter of 3.9m at 4.5m below sea level. It was recommended that the contractors use the 1Diamond Green Sawfish System, and apply a step by step approach for this challenging project. This was in order to prematurely identify potential difficulties with deployment and cutting operations, and to bypass them if necessary. The cutting of the stub took the crew four days.

### **One of a kind: 1Diamond's Green Sawfish System**

Proserv cut the stub with the 1Diamond Green Sawfish System equipped with the Tyrolit DWH\*\*\*-SL diamond wire. The Green Sawfish is a hydraulic wire saw capable of cutting 4.85m x 4.85m as deep as 120m below sea level. The remote control reduces any potential risks for the user, as it allows for a usage at a distance of 100m. The Tyrolit DHL\*\*\*-SL diamond wire, on the other hand, is a electroplated diamond wire specially devel-

oped for steel cutting, providing advanced performance regardless of the cutting environment, which makes it the perfect tool for the Green Sawfish.

The biggest challenges of the project were the timing and complexity as well as the size of the caisson. The double wall of the caisson was by far too challenging for conventional tools. The dual axis rotation of the Green Sawfish System, combined with the bespoke Tyrolit DWH\*\*\*-SL diamond wire, however, proved just right for the task, which was successfully completed by Proserv on time.

### **Tyrolit and 1Diamond**

Tyrolit and 1Diamond AS (Part of Quanta Services) are partners in offshore and subsea operations. 1Diamond offers machines that cut structures up to 7.5m, and in addition, have the capability to saw at any inclination at a diving depth up to 3,000m. Together with diamond tools from Tyrolit, it is now possible to set a new standard for submarine wire cutting, and thus better meet the high demands in this growing market segment.

The demolition work on the project was performed with the Green Sawfish which is a ground breaking modular system for last phase removal of deck frames (MSF), and gravity based structures (GBS). The Green Sawfish is a surgical, heavy duty subsea sawing machine that employs state of the art diamond wire cutting technology to dismantle structures of virtually any weight, design and material. Safe, cost effective, and environmentally friendly, the Green Sawfish System is a complete success. The electroplated Tyrolit diamond wire DWH\*\*\*-SL was developed for complex and challenging cutting work in steel. The wire offers very high cutting performance, a long lifetime and noticeable smooth running thanks to an optimised bead structure and a high bead count. Its robust structure also provides high workplace safety.



## **Wreckers Dismantling close off 2018 with a bang in South Africa**

Despite depressed business conditions in the South African demolition industry, local company Wreckers Dismantling has successfully ended the year with two challenging explosive demolitions in difficult locations. This included in October, a controlled explosives operation downing a 45m headgear at Shaft 5 of Harmony Gold Mine at Secunda in Mpumalanga province.

Explosives specialist for Wreckers Dismantling, Kyle Perkin, says the project was 'challenging', with the structure being supported by compound girders. Once the explosives were detonated there was a possibility that shrapnel could travel as far as 1k if not properly controlled. "Special cutting techniques were adopted for the placing of the charges as well. These had to be very precise, so as not to overly pre weaken the structure, causing premature collapse," explains Perkin.

Indirectly linked to the gold mining industry, was the mid November removal of the first two of four original floodlight towers at the Willowmore Park international cricket ground in Benoni, on the East Rand in Gauteng province. The five second demolition of the 70 year old towers took place once the relevant heritage authorities had approved their removal, in keeping with South African law regarding structures older than 60 years. Perkin explains the demolition: "The ground's lights have steel pylons, and there were concerns that the natural structural deterioration of the disused concrete towers over the years had made them potentially unable to withstand a significant earth tremor. This capacity must be factored into any construction in the area, due to extensive mining activity on the East Rand over more than a century."

There were many other factors to consider; from protection at source of the blast to public safety, damages to underlying services, road closures and an exclusion zone of 200m. Given the proximity of an electric substation, and ablation blocks just 4m away from each mast, it was crucial that both towers were felled in the desired direction to prevent damages. "So we removed a large portion of the circumference of the tower with controlled explosives, and left the remainder to act as a hinge as the towers started to rotate past the centre of gravity," says Perkin.

Both towers demolition was initiated simultaneously as air blast was not a concern. Soil was placed to cushion underlying cables from any major impact. Once both towers were successfully downed, processing and clearance commenced immediately to meet pressing sports needs at the ground in the middle of the sport season. The remaining two towers, in more difficult locations at the ground, will be felled in April 2019.





## National Flooring Equipment returns to The International Surface Event

To help contractors improve productivity during floor renovations, surface preparation equipment manufacturer, National Flooring Equipment, exhibited at The International Surfaces Event (TISE). During the exhibition at the Mandalay Bay Convention Center in Las Vegas in September, attendees found a range of National Flooring Equipment's machines.

National Flooring Equipment exhibited its three styles of power hammer trolley at TISE. Using a jack hammer for extended periods of time can strain your back and hands, but as National's power hammer trolley enables the angle of the jack hammer to be changed to a more comfortable position, contractors can work faster and more efficiently. "Most contractors will have a power hammer in their inventory, but it can be uncomfortable to use," explained Dave Bigham, director of national accounts at National Flooring Equipment. "A power hammer is heavy and clumsy to work with, which can cause discomfort for the contractor. Using the hammer at a perpendicular angle also generates excessive dust and may pull up more material than required. Our trolley is one of our best selling products because it is simple, easy to use and useful. It changes the angle of the blade to pick up hard goods in larger pieces, making floor removal and clean up simpler."

National Flooring Equipment also showed a range of ride on floor scrapers at TISE. One highlight was the 2900 high speed battery ride on scraper, which is designed for removing soft goods such as carpet or VCT quickly and efficiently. Visitors to the stand were also be introduced to the benefits of the 5700, an all-day battery ride on scraper, which can work on any jobsite for up to twelve hours on a single charge.

Visitors to the show were also able to see National Flooring Equipment's range of walk behind scrapers, which are ideal for floor removal in smaller jobsites, such as residential spaces. The 550, for example, is National Flooring Equipment's smallest walk behind scraper, which can be easily manoeuvred in small spaces.

Volvo CE and its customer Skanska have recorded ground breaking results at the 'electric site'.



## Volvo CE announces carbon emissions reduced by 98% at 'electric site'

Volvo Construction Equipment (Volvo CE) and its customer Skanska have been testing the viability of the 'electric site' research project over the last 10 weeks at Skanska's Vikan Kross quarry, near Gothenburg, Sweden. The results reported are even better than expected, with tests showing a 98% reduction in carbon emissions, a 70% reduction in energy costs and a 40% reduction in operator costs. All of these developments are aimed at helping Volvo CE achieve its future vision of work sites being ten times more efficient, with zero accidents, zero unplanned stops and zero emissions. When taken together, the results support the potential for a 25% reduction in total cost of operations. However, at this stage, the reduction in total cost of operations is just a prediction, as the prototype machines involved are not commercially available, making it impossible to give a guaranteed figure.

"Over the last ten weeks, we've made incredible progress, learnt a lot, and seen huge potential in the 'electric site' solution's environmental, efficiency, safety and cost benefits," says Uwe Müller, chief project manager for the electric site at Volvo CE. "In fact, we have decided that we want to learn more, so we will extend our test period with Skanska until the end of the year. The results we have seen so far confirm that this research project is a step towards transforming the

quarry and aggregates industry and creating emission free quarries."

The 'electric site' project aims to electrify each transport stage in a quarry ranging from excavation to primary crushing, from transport to secondary crushing. It incorporates electric and autonomous prototype Volvo CE machines, new work methods, and site management systems, which together form a complete site solution. New technology encompasses machine and fleet control systems and logistic solutions for electric machines in quarries. "With climate change reshaping our industry, we need to find new, sustainable solutions and build partnerships with organisations that have different competencies," says Anders Danielsson, president and CEO of Skanska. "Our ambition is that this collaboration with Volvo CE will help us and our customers to reduce our carbon footprint. The power of partnership will make it happen."

"At Volvo CE, we believe in a sustainable future, and we are doing our best to build the world we want to live in," concludes Melker Jernberg, president of Volvo CE. "The 'electric site' is one example of how we are trying to achieve this. With this research project we are combining intelligent machines, automation and electro mobility to challenge traditional ways of working in the quarrying industry and explore new alternatives."



# Cutting Edge Hydrodemolition with AQUAJET



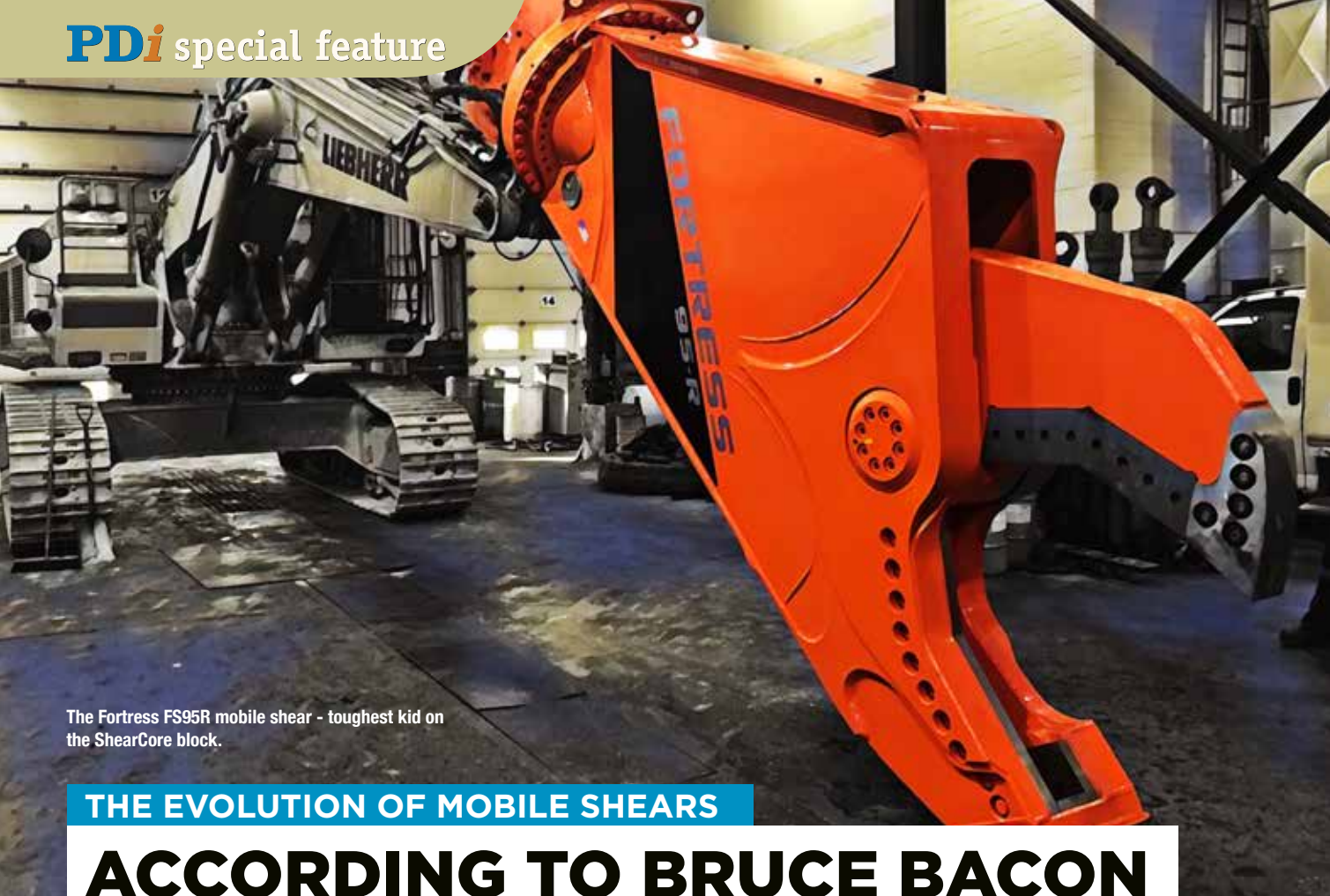
Hydrodemolition is a technique that uses a high-pressure water jet to remove areas of deteriorated and damaged concrete from structures and buildings, such as bridges, pillars, roads, parking garages, power plants and other engineered constructions. It leaves a sound and good surface, ready for re-instatement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

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The Fortress FS95R mobile shear - toughest kid on the ShearCore block.

## THE EVOLUTION OF MOBILE SHEARS

# ACCORDING TO BRUCE BACON

***Bruce Bacon, the founder and managing director of US based attachment specialist ShearCore, is a demolition industry icon. Having started his career back in the early 80s, he not only witnessed the evolution of attachment manufacturing techniques but helped shape them. According to him, that was exactly what has happened - an evolution. PDi's Andrei Bushmarin recorded Bruce's version of how mobile shears were invented and put in demolition and recycling practice which is featured along with a look at some of the latest developments in mobile shears.***

The very first approximation of what we know now as mobile shears was an adaptation on the 3 tine grapple invented by Roy Labounty. A customer of Roy's once asked for an attachment that could cut and rip apart car and truck tyres, wondering if it would be possible to put blades in the jaws, and use the force of the grapple to cut up the tyres. Roy, being an open minded person, agreed to try that. He took a CAT 225 stick, put a bigger cylinder on it, affixed a lower jaw to the stick with a stiff arm, and made an upper jaw with blades to cut steel. The prototype did work, but with some obvious malfunctions (the stick broke and the upper jaw wandered and jammed). To overcome these challenges, a customised

heavy duty stick of a shear, with a slightly larger main shaft, was devised along with the 'puck', aka the auto guide, to help keep the jaw in alignment. The next advancement involved the cylinder container 'inside' the body, then rotation. None of these advancements came easy, says Bruce, trial and error being fundamental foundations of any design evolution.

When in 1997 Bruce Bacon left LaBounty to create Genesis Equipment, his team continued improving the shears' design. Regeneration, higher power to weight ratios, faster cycle times, and bolt on replaceable piercing tips all became features that are now industry standards. When the time of ShearCore and the Fortress range came, both the new company and its tools were bound to be a success thanks to decades of accumulated experience. Working alongside Bruce Bacon are lead designer Ross Christenson and production manager Jim Campbell, who have years of industry know how that very few people possess. Ultimately, successful evolution in design occurs when knowledge and experience are combined with a willingness to push the boundaries.



Bruce Bacon, the founder and managing director of US-based attachment specialist ShearCore, is a demolition industry icon.



Jim Campbell, ShearCore's production manager.



Ross Christenson, ShearCore's lead designer.



# FOR THE IMPOSSIBLE DEMOLITION WORK SITE





This is exactly what the engineers at ShearCore have been doing over the years.

The biggest problem ShearCore is up against now (and it is a good problem to have) is the capacity, or rather the lack of thereof. Even though ShearCore has increased production capability by 200% over the past two years by adding another five axis machining centres, the backlog keeps piling up. The global scrap recycling market is in good shape and is thought to stay that way throughout 2019, so no shortage of orders are expected in the short term. What is really in short supply, though, is skilled labour, and that presents a serious challenge to all industry players.

### Fortress FS95R: toughest kid on the ShearCore block

The latest and perhaps the most impressive brainchild of Ross Christenson and Jim Campbell is the Fortress FS95R model. Weighing in at 10t, the shear boasts a 1.1m jaw that can easily pierce a 25mm steel plate. It is the toughest kid in the ShearCore product family, of which a UK user said, "It punches above its weight". The size of pivot assembly was increased by as much as 40%, leading to better cutting stability. Thanks to its advanced milling capabilities, the US based family owned manufacturer is now able to produce mobile shears with a 152mm high tensile steel plate such as the Fortress FS95R.

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

### Trevi Benne's 'Marilyn' loves old cars

The 'Marilyn' shear from Italian based manufacturer Trevi Benne is not only suitable for heavy duty industrial demolition, but for such delicate tasks as car dismantling. Given the strict rules for end of life vehicles, dismantling of a car is a complex multi stage process. First, there is the need to remove parts and units containing dangerous chemicals such as radiators, coolants, engine and transmission oil. This stage is followed by the disassembling of the engine, axles and transmission, and only after that a special tool like the Marilyn CS 40RS shear can be used on the remaining metal parts. Weighing in at 4t, this model features a jaw specifically designed for smooth and uniform cutting of steel elements.

[www.trevibenne.it](http://www.trevibenne.it)



### TSRC multishear: an all-round solution from Okada

In 2017, Japan based attachment specialist Okada launched the TSRC series of multi-purpose shears. The new tools, which are equally capable of demolishing reinforced concrete and straight steel structures, are reported to have become very popular with users since their launch. Originally designed for primary demolition tasks, the TSRC shears also feature purpose made blades allowing for easy shearing of thick steel plates. One case study involved a TSRC shear being used to demolish a transmission tower in the United States, where following the primary demolition of the tower, the shear swiftly cut the steel pipes into small transportable pieces. The Japanese supplier believes that the all-round qualities of the TSRC series makes them a good proposition for both demolition contractors and scrap recyclers.

[www.okada-aiyon.com](http://www.okada-aiyon.com)

### Rotar to launch its biggest model so far

Having first entered the scrap shear segment over ten years ago, Netherlands based Rotar keeps expanding its range with new models. In 2019, the current five model line ranging in weight from 2.5t to 8.5t will be complemented with addition of the RSS 150 – Rotar's biggest shear so far. Weighing in at 12.5t, the RSS 150 bears all trademark features of a Rotar shear: a fully encased replaceable piercing tip, a robust rotating headpiece and outsized double rowed slewing ring allowing for the shear to be positioned in any desired way.



A specially designed hydraulic cylinder speeds up the jaw's work cycle and permits the tool to switch quickly from speed to power mode. A double hose connection and large diameter of hoses, bores and pipes contribute to optimisation of the oil flow. All parts of the attachment are made from wear resistant high grade materials.

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

### Recycler from 'Down Under' chooses Hydram

In October 2018, Hydram's Finnish partner Minimum Oy delivered two units of the HSS-70RV scrap shears to C.D. Dodd Scrap Metal Recyclers which is located in Perth, Australia. One of the continent's leading scrap metal recycling companies, owned and managed by Chris Dodd, it has been using Hydram attachments for over three years now. Courtesy of Liebherr Australia, the shears were presented to the customer already fitted on to the main booms of two Liebherr 936 excavators. With an operating weight of 36t, the Liebherr crawlers have no problem handling the 7t shears. The excavators' hydraulic system, which provides an oil flow of 490l/m and a working pressure of 380bar, matches perfectly the shears' operational parameters. With a jaw opening of



(Left) Kalle Tuominiemi, the owner and managing director of Minimum Oy and (right) Chris Dodd, the owner and managing director of C.D. Dodd Scrap Metal Recyclers

845mm and a maximum cutting force of 815t, the HSS-70RV is designed for most challenging recycling tasks.

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

### Green Attachments introduces tilt rotator mounted model

Specialist contractor Honkalan Paja is using a Yellow S06 scrap shear from Green Attachments on one of its projects in Finland. What makes this particular model special is the fact that it is adapted for a tilt rotator. Capable of not only rotating but also tilting, the shear provides users with another operational dimension. Weighing in at 640kg, the Yellow SH 06 is a compact sized model fitting 7t-12t excavators. It is the first shear of this kind in the Finnish





supplier's catalogue, which at the moment offers a grand total of 11 models designed for 7t to 130t carriers.

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

#### **Prodem launches next generation of dedicated scrap shear**

Suitable for 3.5t to 310t carriers, the new generation of dedicated scrap shear from UK based supplier Prodem now offers 20% more cutting force thanks to its powerful cylinders. The shear's other highlights include a speed valve, a bolt on piercing tip and reversible blades. An innovative design reduces stress and wear to the upper jaw, with the blades being able to be turned up to four times before replacement. The shear's cylinder is accessed via bolt on access panels, making it easy to service and



maintain. On top of that, a weld on upper jaw protection system reduces maintenance and build up on the upper jaw, thus minimising tool downtime.

**[www.prodem-attachments.com](http://www.prodem-attachments.com)**

#### **Wimmer shears bite hard**

Designed to withstand the harshest working environments, the Top Cut 700 shear from Austrian company Wimmer comes in four sizes to fit 16t to 75t excavators. The attachment is supplied with five types of exchangeable jaws, which allows it to tackle a wide range of demolition and recycling tasks. Another flagship model in the Wimmer range is the universal 'Quick-Cut' shear. Thanks to its simple no frills design featuring only one cylinder, maintenance is fast and simple with wear parts being easily exchanged. Unveiled earlier this year at the MAWEV trade show in Austria, the 'Quick-Cut' has already proved itself on various demolition sites.

**[www.wimmer.info](http://www.wimmer.info)**




**"With an operating weight of 36t, the Liebherr crawlers have no problem handling the 7t Hydraram shears".**

#### **Indeco features the ISS range**

The scrap shear portfolio of Italy based Indeco currently counts six models that fit 8t to 90t machines. Made from Hardox steel, the ISS shears feature reversible blades, a regeneration valve and an integrated dual guiding system. The interchangeable 'quick-change' wear bushings ensure that the blades are optimally aligned at all times. A heavy duty pivot group provides sustainable cutting efficiency, keeps jaws aligned and prevents buckling. The hydraulic cylinder, with seals being designed to withstand the pressure of up to 700bar, generates enough force to deal with any shearing task. All models in the range boast a 360° hydraulic rotation option. The mounting bracket for the second member configuration is used to mount the shear straight onto the excavator boom. In this configuration, ideal for recycling of ferrous material, a larger attachment can be mounted on a relatively small carrier. The universal baseplate for the second member mounting brackets is compatible with all carriers. The third member mounting bracket is used to mount the ISS on the carrier stick for heavy duty demolition applications.


**[www.indeco.it](http://www.indeco.it)**





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## GSSI showcases its latest GPR equipment

GSSI, the manufacturer of ground penetrating radar (GPR) equipment, highlighted its StructureScan Mini XT and StructureScan Mini LT systems at The Buildings Show (World of Concrete Toronto Pavilion), from the 28-30 November 2018, at the Metro Toronto Convention Centre.

StructureScan Mini XT, the newest generation of GSSI's popular all in one concrete inspection GPR system, is ideal for locating rebar, conduits, post tension cables, and voids. The Mini XT can help identify structural elements, including pan decking and concrete cover, and can also provide real time determination of concrete slab thickness. It features an intuitive touchscreen interface and six button control options. Also at the booth was the Palm XT Antenna, the newest accessory for the StructureScan Mini XT. The miniaturised GPR antenna is designed to greatly enhance the capabilities of the StructureScan Mini XT, with the handheld Palm XT antenna turning a basic Mini XT into an advanced system by giving users unparalleled access in tightly spaced areas enabling overhead scanning.

Visitors to the booth were also able to see the StructureScan Mini LT, an entry level integrated GPR system for concrete inspection that comes with an antenna, positioning system, and control unit combination. The handheld, compact and lightweight system is IP 65 rated to withstand a jobsite's toughest conditions. StructureScan Mini LT features an easy to use interface, and is the perfect entry level concrete inspection system for safely locating metallic and non-metallic targets within concrete.



## Remote services diagnostics reduces equipment downtime

Caterpillar has introduced a new suite of Cat Connect technology that offers remote equipment diagnostics and software updates to reduce machine and engine downtime, thereby increasing jobsite efficiency. The new Cat 'Remote Services' include two key offerings: 'Remote Troubleshoot' and 'Remote Flash', both of which leverage telematics data to allow Cat dealers to remotely keep customers' equipment operating at maximum production and efficiency. "A machine or engine not at work isn't making money for the customer, which cuts into the company's profitability for the job. 'Remote Services' provide a solution to more effectively and efficiently maintain equipment," says Herwig Peschl, Caterpillar global marketing manager.



## Transforming solutions from Allu at bauma China

The exciting capabilities of the Allu range of Processors and Transformers were the stars of the show for the company at bauma China 2018. As the largest trade show in Asia, Allu was delighted to show at first-hand how its equipment can help construction companies maximise their business, whatever the application.

The Allu Transformer Series was the main component of the ALLU offering at bauma China. This comprises of an excavator/ loader/ tractor mounted processing bucket which screens, pulverizes, aerates, blends, mixes, separates, crushes, feeds and loads materials. This results in the feed material being effectively transformed into highly valuable products, making any business more efficient, and more profitable.

Catering for applications of all sizes, and capable of processing any material that can be screened and sorted, the Allu Transformer Series comprises of the compact DL & D Series, as well as the truly massive M and G Series. All are designed to transform the way in which material handling and processing businesses are able to improve their efficiency and profitability. The latter have proved themselves on truly massive quarrying and surface mining applications throughout the world, being designed for use by excavators up to 300t.

The Allu Transformer, whatever its size and configuration, is ideal for processing concrete, waste, soil, sand, rocks and minerals on site. This truly mobile solution provides the versatility and flexibility to enable work to be accomplished more efficiently even in the most challenging environments. This results in substantial savings in material and transport costs, as no time is lost when waiting for replacement material. Additionally, binders can be mixed if the material handling includes additive requirements or stabilization.

Also featured at bauma China was the 500HD Processor. This is a hydraulic power mixer attachment which converts any excavator into a powerful and versatile mixing tool capable of penetrating and effectively mixing a variety of difficult materials. Such materials suited for the attachment range from clay, silt, peat, sludge and sediment, to dredged material and contaminated soil.

The Processor 500 HD is both durable and strong. It is designed to work to a depth of 5m with a weight of 2,445kg (+400kg fabricated mount plate). Despite its strength, its wear resistant steel stem is both nimble and streamlined, and is again powered by the excavator's hydraulic system. This means it is able to reach difficult or soft areas, with the Processor 500 HD being able to readily mix materials everywhere the excavator goes. Binders or chemical agents are delivered to the area of the highest mixing shear by an attached 80mm diameter pipe.

In effect Allu Processors provide a variety of uses, as they essentially reach, mix and process whether the material is wet or dry. This has made them ideal in constructing temporary roads, solidification and soil remediation projects, dealing with contaminated soil, excavation and pipeline works, as well as oil ponds and sand acid tar.

Allu would like to thank the literally hundreds of visitors to its stand at bauma China. "The reception from Chinese and Asian visitors given to the Allu products exhibited at the show was amazing. The number of aggregates, recycling, construction and demolition companies who were keen to embrace our solutions shows that the market for Allu just gets bigger and bigger," said Marjut Lindroos, Allu's global marketing manager. "We'd like to thank all the visitors to our stand for helping to make bauma China 2019 such a truly special show."



## LIGHT, EFFICIENT AND FLEXIBLE

Prinroth, well known for its crawler carriers, also manufactures a wide range of mulching equipment, developing expertise in agriculture and forest management, with the company having recently introduced its latest mulching head model, the M450. This has been developed for a range of carrier vehicles ranging from 80-150HP, and a volume flow of between 100-200l/min, meaning that the

M450s is a compact and powerful head for a diversity of mulching applications. With its 'plug and mulch' feature, the M450s is easily fitted on any skid steer loader make and model. Hydraulic hoses with standard fittings are included in the package, with the M450 also being equipped for safe operation purposes with anti-slip stripes on the top of the housing, and with two steps for a safe access to the carrier.





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# 100% VOLVO DEMOLITION

***Volvo Construction Equipment has during the last four years made a radical change to the offering from its demolition machinery segment. It began in 2014 when its E-series high reach excavator models were launched beginning with the EC380EHR and EC480EHR. Now this autumn the manufacturer has launched its latest flagship development, the multi-purpose EC750E HR demolition excavator. Jan Hermansson reports.***

Volvo gathered a small group of trade press journalists particularly focused on demolition equipment at the Volvo EU depot in Groot-Ammers, some 45min from Rotterdam at the end of October. Besides Volvo staff, representatives from two Volvo clients, Veidekke from Norway and Aanemingsbedrijf Princen from the Netherlands, participated. The event at Grot-Ammers was actually the first time that Volvo has organised a special press event for its demolition equipment.

## **100% Volvo demolition technique**

Peter Lam, excavator product manager for demolition and special application solutions within Volvo sales region EMEA, began the meeting informing the audience that Volvo has fulfilled its dream to create a full line up of 100% Volvo built high reach demolition excavators. Today, with no involvement from independent specialised demolition excavator design firms, Volvo's new fleet of multi purpose and high

reach demolition excavators have all been developed and built by Volvo.

In early 2000, when Volvo built its first high reach demolition excavator, it was in cooperation with local specialised design firms. However, this approach was not what its customers wanted; they wanted one partner to provide the complete solution. In 2007 Volvo released its first in house model, EC700BHR, which have evolved step by step from the B-series, C-series





Volvo demolition segment manager David Arnoldsson.



A large backpressure valve for fast closure of the attachment.



The under carriage can may extended up to 3.6m.

more important for our end users that we are providing all the knowledge and design ourselves. Since some time we have all that knowledge in house, and together with our clients we build the machines with no external involvement," explains Peter Lam.

### Three dedicated high reach and heavy duty models

Today Volvo has three purpose built demolition excavators consisting of the EC380E HR and EC480E HR, as well as the new EC750E HR. The new EC750EHR is, according to Volvo demolition segment manager David Arnoldsson, a unique machine for both high reach and heavy duty demolition purposes. "The machine is based on the E-series generation which we know is a very safe and a solid series to build such a machine on. It has been sold all over the world and in various conditions and it is also equipped with our new Stage 4 final engine," says Daniel Arnoldsson.

David continues and explains that the EC750EHR boom reach has been extended to 36m being able to carry a demolition tool of up to 3.6t. The high reach boom in itself has a unique design being very sturdy, with all sensitive parts being well protected, equipped with a dust suppression system and with plenty of LED lights for good visibility. Additionally, the boom has a strong linkage making it perfect for carrying very heavy attachments for short rig heavy duty demolition within, for instance, the process industry. The return lines have also been increased in order to make the closing of the attachment faster.

and then the D-series. In 2014 with the launch of the E-series sales really started to take off. At this point the machines were equipped with a completely new and improved cabin specifically for demolition purposes.

At bauma in 2016 Volvo released its new extension boom for the EC480EHR, and this year at Intermat, it was also released for the EC380EHR. By 2017 the Volvo demolition series had been sold in to over 20 different countries. During this journey of development Volvo has carved out a path in the demolition industry by carefully studying the market. The company has talked to numerous demolition contractors around the world about how they want optimal demolition excavators to look like, and what features they should possess. From this base information, Volvo has built up its new and completely independent strategy for the 100% Volvo built multi-purpose demolition excavators.

"We used to cooperate with design companies specialised in building high reach and heavy duty demolition excavators, but we have realised that it is much

The EC750EHR's counterweight has been improved so the complete weight of the additional- and standard- counterweight can be hydraulically lowered and removed for transport. The machine has a new extension boom for mid reach (18m and below grade, 10m

The cabin can be tilted up to 30°.





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A well built cabin with good visibility.

demolition) and can carry attachments up to 8t in this setup. The extension boom can be used both in a straight and bent configuration. The new cab is uniquely built for demolition purposes, and can be tilted up to 30°. It is well protected with a frame mounted falling object guard (FOG) with steel grids on the roof and the front screen. The front grid can be easily opened for simple cleaning. The cabin provides excellent visibility, and is further enhanced thanks to two cameras located on the side and rear of the machine, and a further two cameras on the high reach boom. The cabin also has two large monitors that are easy manoeuvrable, with the operator being able to choose to use all cameras at the same time or just a couple of them. The lower protection plate for the boom, under the machine, has a pattern of holes so the operator can see through it.

The EC750EHR possesses a very steady undercarriage designed for demolition. It is built on an X shape frame, being the biggest ever built by Volvo, providing a very low centre of gravity. The track width is in the extended position 5.05m (with 750mm track shoes). The base machine weight is 83.5t, with the 36m high reach boom without attachment being 19.5t; when a 3,6t attachment is added the complete machine weight is 106.6t. To comply with transportation regulations, the machine can be stripped down to a maximum weight of 29t, which means that the track frames can be removed, and has quick couplings for this to be accomplished easily.

Peter Lam is very clear when pointing out that EC750EHR is not only an optimal high reach demolition machine. "This is a multi purpose demolition machine that can carry out advanced demolition with

a heavy tool on a high level, and even heavier tools with a short boom. With the 18m mid reach boom it can carry demolition attachments for heavy duty demolition up to 8t, and it has also a digging boom for low level demolition." Boom exchange takes about 40min, with Volvo choosing not to use a quick connection coupling for the high pressure hoses for durability and reliability.

At the press event in Groot-Ammers two of Volvo's clients that have purchased the new EC750EHR participated. The client from the Netherlands was Wesley Princen, owner of the demolition contractor Aanemingsbedrijf Princen. The company is a specialist in the demolition of electrical substations and nuclear fuel plants, with the company having just purchased the EC750EHR that was used during demonstrations at the press event. It was stated that the excavator will be mostly used with a 26m high reach boom for heavier tools up to 5t. The other client participating was Erik Nielsen, who is the demolition manager for the Norwegian Veidekke Group. Its machine has already been delivered, and is working at a large demolition project in Norway, 'House of Oslo' (PDi hopes to report on that job in the next issue), with Veidekke mostly using the 36m high reach boom in its work.

#### Some facts about Volvo Construction Equipment

Johan Theofron Munktel along with brothers Jean and Carl Gerhard Bolinder founded Volvo (which is Greek for 'I roll') in 1832. Volvo began manufacturing excavators at the end of 1990s, and before that, the company was involved with the well-known Swedish excavator manufacturer Åkerman. When Volvo decided

to begin excavator manufacturing, one important step for world-wide recognition was the acquisition of the Korean manufacturer Samsung in 1998. Samsung has a very good reputation in Korea, and has over the years attracted some of the best of designers and engineers in the field. Its main factory is located in Changwon in the south of Korea, where excavators from 6t - 95t are developed and manufactured. Today some +10,000 machines are made annually. The excavator cabins are manufactured in Hallsberg in Sweden, with manufacturing of 15t-26t excavators also being undertaken in Konz, Germany. Today, Volvo manufactures excavators ranging from 1.5 to 100t, and now has 110,000 employees with production facilities in 18 countries, selling globally to 190 markets, with turnover during 2017 reaching €37B.

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



The host for the press meeting, Peter Lam, excavator product manager for demolition and special application solutions within Volvo sales region EMEA.



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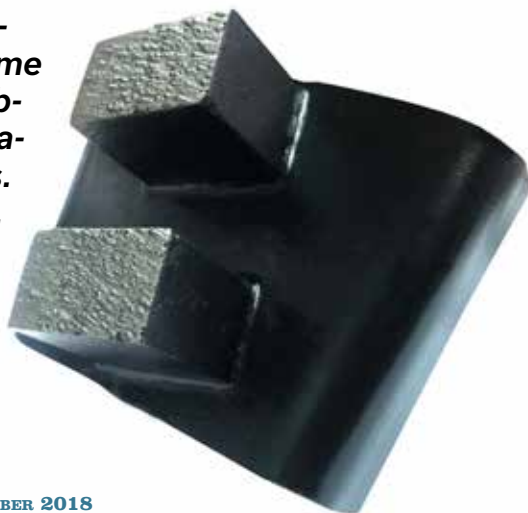
# IN DIAMOND TOOLS

**Surface preparation techniques are getting increasingly popular all over the world. Responding to the trend, suppliers of diamond consumables are busy beefing up their catalogues with new grinding discs and polishing pads. However, the recent tendencies notwithstanding, there are still some novelties in the more established sectors including diamond blades and core bits. Andrei Bushmarin reports.**

**Solga shifts its focus to surface preparation**  
Spain based Solga Diamant is one telling example of an established diamond tool manufacturer shifting its focus towards surface preparation in response to market trends. Demand for epoxy floors and polished surfaces is reported to be growing worldwide, and the Spanish company with a fifty year track record in the business, is aiming to meet demand with its new range of grinding and polishing tools. In the polishing sector, for example, Solga offers an ample choice of different grains in metal alloys, including grains over 200mesh, with the alloys

being easily identified using a five colour code, which defines various polishing applications. The system is applicable to a wide variety of floors including silica containing surfaces, as well as those with zero abrasion. Solga adapts its surface preparation consumables to the machines currently existing in the market on the basis of machine's weight, speed of rotation and the customer's specifications on the finishing quality. On client's request, the Spanish manufacturer can customise a product's bond to suit specific job requirements.

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specialist contractors. The latest additions to ATDB's tool portfolio are soft metal pads measuring 230mm and 270mm in diameter. Designed for planetary grinders, the pads are available in three grit sizes: 30, 60 and 150. Cup grinding wheels and diamond/PCD wings for high speed grinding being the French company's other specialty. Its latest pride and joy in this field is an Ø125mm grinding wheel with ¼ cylinder PCD split segments for efficient removal of paints, glues and hard thick resins. More aggressive than diamond tipped consumables, they leave fewer scratches than conventional PCD tools. ATDB makes grinding wheels on demand at its factory in Dinan, where it also keeps a large stock of conventional PCD tools - square, round, half round PCDs - with different grinding depths for customers to choose from. Retipping services on used PCD wings, plates or rings are also available.

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

### Dymatec updates its bestselling tracksaw blade

This summer, UK based Dymatec launched an improved version of its bestselling P20 diamond tracksaw blade, the P20W. Retaining the same high cutting speed, the brand new P20W lasts significantly longer than its predecessor. Jeremy Newton, Dymatec's managing director, said of the new blade: "The P20W is an exciting new addition to our range of high quality diamond drilling and cutting consumables. The P20 has held the title of the bestselling tracksaw blade in the UK in recent years, and we are delighted to now offer an improved version of it. Blades are one of our most popular lines and we are constantly looking at ways to improve the performance of our products. With the P20W, we made sure it continues to be the fastest cutting blade on the market, and our design changes mean it now lasts longer. Moreover, the P20W is available at the same price as the P20, and we expect this product to be in high demand." The P20W is available in a range of diameters of up to 2,200mm.

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



### Versatile 'Tiger Tooth' blade from MK Diamond

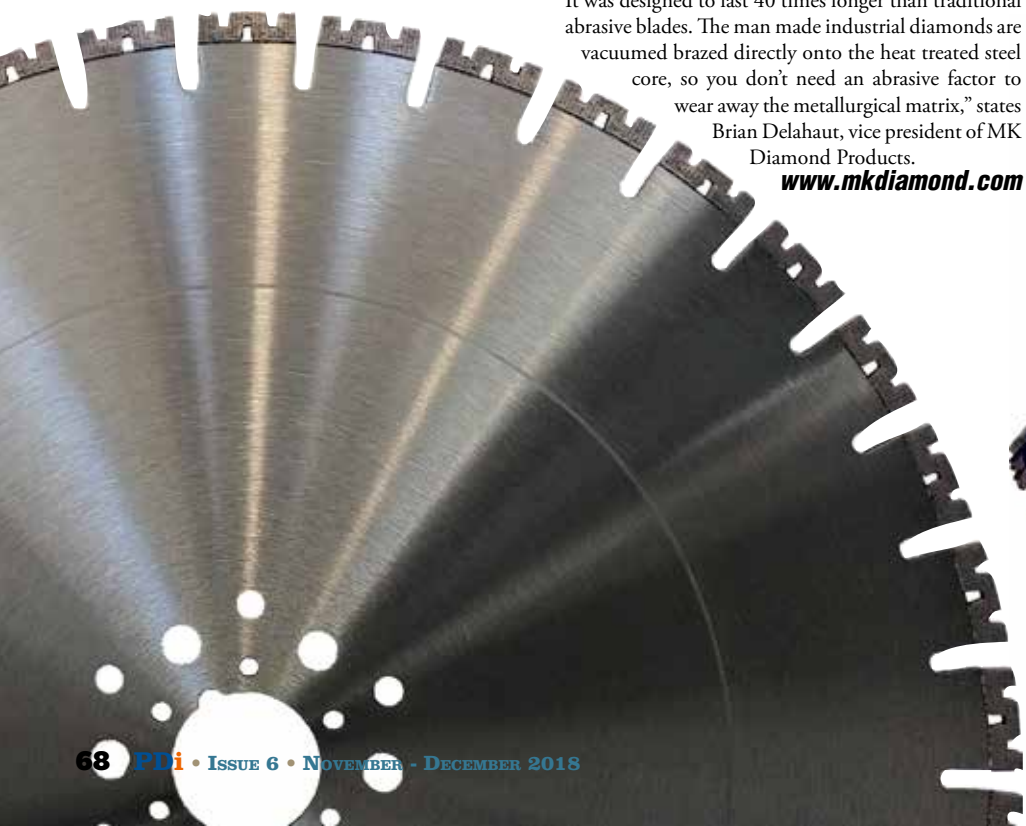
US based MK Diamond Products features the multipurpose Tiger Tooth diamond blade. The blade has been designed to cut a wide variety of industrial materials ranging from wood, PVC/polyethylene pipe, concrete and masonry, to metals and ductile iron. The Tiger Tooth vacuum braze technology adheres diamond particles straight to the segment's surface, ensuring that 100% of the diamonds are used during operation. There are no bonds to wear away, enabling the diamond to work at its peak performance in every material being cut. The Tiger Tooth can be used on most standard hand held grinders, electric circular saws and gas powered cut off saws, and is available in sizes ranging from 101mm to 355mm diameters. "The Tiger Tooth Blade provides superior performance and versatility. It cuts virtually everything on site, from dry wall to corrugated roofing. It was designed to last 40 times longer than traditional abrasive blades. The man made industrial diamonds are vacuumed brazed directly onto the heat treated steel core, so you don't need an abrasive factor to wear away the metallurgical matrix," states Brian Delahaut, vice president of MK Diamond Products.

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

### Diamond Vantage launches premium Zenesis core bit

Based in Irvine, California, Diamond Vantage is a nationwide supplier of concrete sawing, drilling and surface preparation solutions that has been operating in the US market since 2003. A part of EHW Diamond's global family, the company manufactures and distributes Zenesis diamond tools to the North American construction industry. One of its latest innovations is the Zenesis patterned core bit for wet drilling applications. The V notched segment design of the new core drill helps increase drilling speed and simplify initial hole coring. A laser welded patterned diamond array allows for consistent speed and long life in rugged applications. The 10mm segment height, along with a dense pattern of high grade diamond particles, ensure efficient drilling in heavily reinforced concretes.

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





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## THE ULTIMATE DEMOLITION CONTRACTOR'S ATTACHMENT

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For over three decades steel company SSAB has delivered steel plates to UK Company Kocurek Excavators, now seen as one of the industry leaders in the manufacture of demolition equipment.

SSAB has been helping Kocurek Excavators produce demolition equipment for over three decades. "We never received a faulty steel plate from SSAB," said David Kocurek, founder and owner / director of Kocurek Excavators. In fact the Ipswich based company has found the strength of the steel to be incredibly easy to work with. "The key benefit for our company is that we can achieve the high technical results required from the product while welding under normal conditions. I think that is the most important thing for me," said David. One other benefit has been that SSAB's plate products are delivered blasted and primed, without any scale or rust on them. "With the primer, we have been able to weld straight on to the plates without any prior cleaning. That is an added benefit with SSAB's plates. It has saved us a lot of time over the years."

Kocurek's demolition excavators' arms are up to 70m long. As such they need to be able to withstand extreme forces when they are used to literally take buildings down, piece by piece. The use of SSAB's Strenx high performance steel supports the strength and helps saving weight. "We are always pushing the limits of what we are achieving with the excavators. We need to make the arms as high as possible, as our customers constantly want to go higher. That is why it is so important that the steel has good fatigue resistance. So, we try to save weight by using a thinner material. Naturally we need to maintain strength, so we select SSAB's Strenx 700 steel to maintain the strength while reducing the thickness of the plate," said David Kocurek.

Kocurek's quality products are exported throughout Europe, with the company also shipping to the United States,



## SSAB successfully delivering steel plates to Kocurek Excavators for 35 years

Philippines and India, and recently, receiving many orders from Australia. "It is very satisfying to have customers travelling from Australia to order equipment from us, and we are sending equipment to all corners of the globe," said David.

The quality of the SSAB products has gone down well throughout Kocurek. Rebecca Kelly deals with spare part orders and service administration at Kocurek. From her perspective, it is paramount that quality materials are used in the products manufactured by Kocurek, and being a SSAB 'My Inner Strenx' member is proof of this. "We are very privileged to have been able to join the 'My Inner Strenx' programme; it is a reassurance to our customers that we are using the best quality materials, as well as the best quality processes and practices. The 'My Inner Strenx' logo makes it simple and straightforward, you look at a product and you know it is approved," said Rebecca.

For the manufacturing process long steel plates are required for the long reach and high reach equipment.

SSAB has been able to supply Kocurek with larger plate sizes so the product can be put together with fewer joints. "When you are building something very long, the fewer joints the better. One of the key points where SSAB has helped us is with sheets that we can use effectively and efficiently for our design, and that are suitable as well as durable for the equipment," added Rebecca.

The equipment from Kocurek is sent throughout the world and stands the test of time in working conditions where tremendous forces are involved. That is why Kocurek has to use a product that will cope over a long period of time. "People expect something to last if they are putting out a lot of money, so for us Strenx steel is the obvious option. It is a quality product going into our quality demolition equipment," concluded David Kocurek.

[www.ssab.com](http://www.ssab.com)  
[www.kocurek.co.uk](http://www.kocurek.co.uk)



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# AQUAJET SYSTEMS to launch Ergo Spine at World of Concrete 2019

Aquajet Systems AB, the hydrodemolition division of Brokk AB, will launch the Ergo Spine attachment for its new Ergo System hydrodemolition machine in the United States at World of Concrete 2019, booth C4249. The Spine wields four times the water reaction force of hand lances, giving contractors a more powerful and safer alternative.

"This innovative attachment couples with the convenience and portability of the Ergo System to deliver a lightweight, yet formidable, hydrodemolition solution," said Roger Simonsson, Aquajet Systems managing director. "Its powerful water jets efficiently take on concrete removal and repair in some of the most challenging spaces to work, opening up the productivity of robotic hydrodemolition to nearly anybody in any location." The Spine includes an Aquajet power head attached with a single bolt to a roller beam, which is connected to a spine roller mounted on a spine rail. Depending on the configuration, the setup may be supported by standard support legs, or the spine rail may be attached directly to a surface.

Aquajet manufactures the roller beam with a lightweight aluminium core coupled with a steel gear rack and guide rails. Beam sections are mounted together with a single bolt. The Ergo Spine roller features a low weight, high strength skeleton base with a wheel setup that divides forces for the ability to handle high reaction forces. The spine rail is fabricated with high strength aluminium, reducing its weight by half compared to steel. A 2m rail weighs just 22kg, and despite its lightweight properties, the rail handles the same reaction force as an entirely steel rail. The rail allows for quick connections with a single bolt for different brackets and tools.

The Ergo Controller's intelligent sensing controls automatically adjust and move the power head along the roller beam. Aquajet's high pressure power pack, sold separately, provides water pressure and flow to the power head's lance and nozzle, creating a reaction force up to 1000N. The Ergo power head can tilt at up to a 45° angle to attack the material efficiently and oscillates to get the best results for each job. As the Power Head moves along the Ergo Spine, it removes concrete in sections as small as 250mm, up to 2m, leaving the rebar clean and undamaged. An Ergo Spine with a power pack producing 2,800bar of pressure and 40l/min of water can remove an estimated 250mm<sup>3</sup> of concrete per hour.

The Spine simplifies use as well as maintenance, and is highly portable. One person can carry and set up the unit and secure it with a single bolt. All connection points are marked in red, and all bolt sizes on the unit are the same, ensuring easy replacements. Further, the wheeled controller measures just 1m tall and 420mm wide, making it easy to get to the jobsite on a pallet, and then move effortlessly around the site.

The Spine's standard setup easily tackles concrete walls, floors and ceilings while the side setup delivers hydrodemolition power to narrow spaces.

Aquajet Systems backs its full line of hydrodemolition robots and accessories with service after the sale as well as product training. Through its Aquajet Training Academy, contractors receive hands on instruction and resources to spur their hydrodemolition success.

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





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## Conjet's new interface, color display and remote control box

**Conjet is having a sneak preview of their new interface, color display and remote control box before the official release at World of Concrete in Las Vegas, USA.**

At the port of Värtahamnen in Stockholm, Sweden, the hydrodemolition contractor Waterjet Entreprenad is renovating the quays. For the work they are among others using the Conjet hydrodemolition robots 367 and 557. The manufacturer Conjet is also taking the opportunity to have Waterjet Entreprenad test their new interface as well as their new remote control box with color display.

The new interface is developed for work at a safe distance. You operate the robot through the interface on the robot or on the remote control box. They are identical.

The interface consists of two separate parts, one focused on operation and the other focused on service. The settings are easy to reach with just a push of a button.

The display located on the robot is a 7" color screen with a resolution of 800 x 480 px. One of the most important updates is that you maneuver between controls and options using a rotary encoder. The color display will be available on all of Conjet's 7 series robots.

The remote control box, Conjet Color Display, is equipped with a 4,3" LCD color display with 2 mm thick, protective Gorilla glass and a resolution of 480 x 272 px. It utilizes the surrounding light to give a sharp and clear image in more difficult environments. The technology is developed to be electricity-saving.

"We have focused on simplicity as well as a steep learning curve during all phases of development. We want anybody to be able to understand how the robot works and how to use it, but without compromising safety", says Conny Tångning, Service Manager at Conjet. "A built-in guide shows the user how the robot is controlled and set up so that even inexperienced users can work safely."

With the Conjet Color Display the user is able to steer and control every aspect of hydrodemolition at a safe distance. The operator don't need to be close to the robot during operation.

Conjet's new interface, color display and remote control box will be presented at World of Concrete in Las Vegas, USA, in January 2019. Conjet will exhibit in booth C4030.

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







The Diamond Award is organised in cooperation with the national associations of IACDS and is an internationally recognised competition for concrete sawing and drilling companies, presenting them with the opportunity to demonstrate their professionalism. The new 'best product' category is open to companies that have undertaken drilling and sawing jobs, or manufacture products, equipment or systems that had been made or launched between February 2016 to 30 January 2019. The International Association of Concrete Drillers and

Sawers, IACDS, has extended the deadline for entries in this category until 31 January 2019.

Interested parties should access the submission form and the general guidelines which are available on the Diamond Award 2019 page of the IACDS website (in English, French, Spanish, German and Japanese), with entrants being advised that the language for all the candidature is English. All submissions will have to include a description of the job or the product, the date and location, the innovative elements used in it, the quality

specifications, information about the company and several graphic materials (project presentation document, key image of the product and logo of the company).

#### Ceremony at bauma

The award ceremony itself will take place on 11 April 2019 at the bauma trade fair which will be held from 8 to 14 April in Munich (Germany), with the international construction press invited to attend. The winning entries for each category (job and product) will be presented with their entry and awarded with a recognition plate.

Before the ceremony, a networking event aimed at all professionals who wish to participate will be held in Room B11, pavilion B1. Any company that wishes to promote its brand at the event should be advised that IACDS offers two different packages of sponsorship that provides brand visibility on all promotional materials, and on all documentation for the event. Becoming a sponsor of the networking event will also enable the promoting company to engage in networking before, during and after the event.

All information about the networking event and the sponsorship packages is available via the following link: <http://www.iacds.org/diamondaward/diamond-award-2019/networkingevent>

#### IACDS annual meeting 2019

The International Association of Concrete Drillers and Sawers, IACDS, will also be holding its 2019 annual meeting at bauma. The meeting is exclusive to members, but due to the Diamond Award, the winner will be given the opportunity to attend to the meeting.

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## RUBBLEMASTER CRUSHERS IMPRESS

Since introducing its range of mobile crushers 27 years ago, RM has seen the growth of the recycling industry, and tightening of environmental regulations, lead to increased demand for its compact crushers, increasingly so in China. Following the founding of local subsidiary Tianjin Rubblemaster Technology CO., Ltd. and with 10 existing dealerships, the company now has a reliable partner in China.

Austrian quality, combined with competent local support and 24/7 service, are the factors that Rubblemaster focusses on with the highest priority. "Every crusher has to pass through production at RM Headquarters in Upper Austria so that we can ensure our high quality standards are met in full. Our local sales partners follow up with the same focus and fast regional service," explains Gerald Hanisch, company chief executive.

One of the satisfied customers in China is XY Wu in Bengbu. Mr. Wu has owned an RM 120GO! with a mesh screen since the beginning of September, using it on numerous projects in the province of Anhui, process-

ing concrete to form high value final aggregate. One of the main criteria for purchasing the RM crusher was compliance with the strict environmental regulations in terms of emissions, dust suppression and noise. These are easily met by RM thanks to its drive technology and dust suppression system. In order to enhance the quality of the final aggregate even further, XY Wu added an RM wind sifter to the crusher.

The integrated wind sifter was developed especially to separate non mineral matter from the mineral feed material. This enables an even higher quality final aggregate to be produced, and opens up new applications in the recycling sector. As a specialist in materials processing, this solution offers the customer an even more environmentally friendly and efficient system. The fan on the wind sifter can be regulated to ensure that lightweight materials such as styro foam, textiles and wood, etc. are separated from the feed material. As a result, the final product is cleaner and of even better quality so that a higher market price can be obtained for the recycled material.



## National Flooring Equipment returns to the Executive Hire Show

In order to continue supporting European rental markets, US based surface preparation manufacturer National Flooring Equipment has announced its return to the Executive Hire Show. Here the company will exhibit its walk behind and ride on floor strippers, as well as other newly launched equipment, on stand K6 at the Ricoh Arena, Coventry, on 6 and 7 February 2019.

At its stand, National Flooring Equipment will showcase its 5000 cinq-mille and 5700 ride on floor strippers. The 5000 is a compact ride on floor stripper that can be used in a range of applications, including soft goods and hard goods removal. The 5700 all day battery powered ride on stripper can work for up to 12h on a single charge, and can remove goods in most applications. National Flooring Equipment will also be launching a new shot blaster at the show, with every machine in the company's current range of shot blasters being able to strip, clean and profile concrete in one single step, increasing productivity on the job site. Contractors are invited to National Flooring Equipment's stand to find out more about how the company's new shot blaster will further improve productivity.

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

## THREE NEW FEATURES FOR USER SAFETY

### INTERFACE

The new interface is developed for work at a safe distance. You operate the robot through the interface on the robot or on the remote control box. They are identical. The interface consists of two separate parts, one focused on operation and the other focused on service. The settings are easy to reach with just a push of a button.

### COLOR DISPLAY

The color display located on the robot is a 7" screen with a resolution of 800 x 480 px. It has nine push buttons and a rotary encoder. One of the most important updates is that you maneuver between controls and options using a rotary encoder instead. The color display will be available on all of Conjet's 7 series robots.

### REMOTE CONTROL BOX

The remote control box, Conjet Color Display, is equipped with a 4.3" LCD color display with 2 mm thick, protective Gorilla glass and a resolution of 480 x 272 px. It utilizes the surrounding light to give a sharp and clear image in more difficult environments. The technology is developed to be electricity-saving. The operator no longer has to be close to the robot during operation. Instead, the operator can control every aspect of the hydrodemolition at a safe distance.



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# AUSTRALIA REPORT

***The Australian construction industry in most capital cities is experiencing a major boom in infrastructure projects. Melbourne and Sydney especially are undergoing several underground rail and tunnel projects which will run for the next 5-6 years.***

What we are seeing is unprecedented in terms of monetary funding from government and the private sectors. Supply and demand for service industries is the driving force behind several articles questioning the high salaries paid to construction workers.

Figures suggest that between \$180,000.00 and \$200,000.00 is attainable for a basic traffic control operator who works on a 6-day 12-hour shift roster. Worker unions are defending this claim arguing it is justified for long hours worked and hazardous conditions. The tax payer is asking how can such high salaries be justified when our emergency services, doctors, and teachers are on so much less?

Regardless of which side of the fence you sit the bottom line is investment in infrastructure is always a good choice and helps support the economy and long-term investment. Securing work on these projects is another story altogether and centres around the definition of compliance.

In general, compliance means conforming to a rule, such as a specification, policy, standard or law. Regulatory compliance describes the goal that organizations aspire to achieve in their efforts to ensure that they are aware of and take steps to comply with relevant laws, policies, and regulations.

What this actually means on site has a direct impact on productivity and unrealistic time frames. In most conversations regarding productivity all agree that within the defined 12-hour shift between 7 and 8 hours is the most you can expect from your work force. This is good for the worker and not so good for the employer who has bid for the contract.

A recent project in Darwin, Northern Territory reaffirms this point. The original project cost was estimated at 23 Billion dollars and by the time the project was completed was closer to 50 Billion- more than double the original estimate. In spite of this cost blow out it also resulted in several companies going into liquidation because of productivity issues as well as contract disputes centring around compliance issues.

Reward for effort can be a contradiction in terms when we look at the costs invested in our staff. Employing competent operators and having the ability to progress through training and industry courses is becoming harder to justify, not because of the financial cost, but because there is limited interest or support from the end user.

What we are now seeing on major infrastructure projects is the requirement to provide evidence that employees are competent and skilled in their defined role. In Australia we have a High-Risk work license that is issued by each states Work Safe authority. This license provides evidence the employee can use and operate the plant identified on the license.

High risk licenses are evidence that an employee has completed training and is competent to carry out their duties safely and effectively. Ironically in Australia we also have another compliance tool called verification of competency (VOC).

Compliance on the Melbourne rail projects requires all employees to undergo a VOC of each qualification they hold on their high-risk license. The federal government's own web site clearly states that a VOC is not required if a worker has a valid high-risk license.

The contradiction is an expensive investment for the employer.

VOC assessments cost on average \$650 per qualification. Some employees can have up to 6 different qualifications listed on their high-risk license so you can see where this is going.

Ironically there is no high-risk license for concrete sawing and drilling operators just a qualification issued by the CSDAA once an operator has completed their recognition of prior learning (RPL) assessment.

Hopefully in the coming months as more and more sawing and drilling operators attend these sites common sense will prevail and someone will ask the question how come the sawing and drilling industry isn't recognised as high risk.



Jason Franken President CSDAA.

Read more news and reports at:

***www.pdworld.com***





## 25<sup>th</sup> German demolition conference to be held on 15 February 2019

The German Demolition Association will again organise its popular annual demolition conference, with next year being the 25th, with over 900 participants being expected. The conference is the biggest demolition event in Europe, with 115 companies exhibiting at the event's new venue located at the Station-Berlin on the 15 February 2019. The new venue means that for the first time all the programme items will be under one roof, including lectures and presentations, industry exhibition and also the dialogue evening. Furthermore, for the first time the exhibition of large machines and devices will be possible.

Premium sponsors of the event are Epiroc and Wirtgen. Gold sponsors are Kiesel GmbH,

Lehnhoff, Hartstahl GmbH, Liebherr France SAS, MBI Deutschland, OilQuick Deutschland, Skancraft, Volvo CE Germany and Zeppelin Baumaschinen GmbH.

A large number of rooms may be booked at the Hotel Berlin, Berlin, Luetzowplatz 17, 10785 Berlin, through the link: <https://www.fachtagung-abbruch.de/en/teilnehmer/>. On the evening before the conference, Thursday 14 February, the traditional industry meeting in the bar of the hotel will take place. There will be full day free shuttle bus service between the Hotel Berlin, Berlin and the venue.

The registration deadline is 1 February 2019.

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

## The full conference programme consists of:

**From 7:45 am** registration at Station-Berlin  
**09:00 am** Conference opening by Andreas Pocha, German Demolition Association (Deutscher Abbruchverband e.V.),  
**09:20 am** Keynote speech by Wolfgang Bosbach, CDU politician and lawyer.  
**09:50 am** Interfaces and solutions for urban demolition by Jürg Blechschmidt, Sakosta CAU GmbH.  
**10:10 am** Processing and recycling of fine grained construction waste by Dr. Sebastian Dittrich, Fraunhofer Institut, Bauphysik IBP.  
**10:30 - 11:20 am** coffee break allowing a visit to the exhibition.  
**11:20 am** Demolition of a cooling tower at the nuclear power plant Mülheim-Kärlich with remote controlled robots, by Peter Mittelsdorf, Mittelsdorf Erdbau Abbruch Recycling and Olaf Day, RWE Power AG, KfIn  
**11:50 am** Vibration monitoring and vibration predictions for mechanical demolition methods with Dr. Max Gündel, Wülfel Engineering GmbH & Co. KG.  
**12:10 pm** Particle filtering respiratory protection masks; what are they about and what needs to be considered? Mario-Alexander Lehmann, 3M Deutschland GmbH.  
**12:30 pm** Quality proven recycling building materials, what is the role of BQsE? Jürgen Weber, Bauer + Moosleitner Entsorgungstechnik GmbH, Austria.  
**12:50 - 14:10 pm** Lunch / visit to exhibition  
**14:10 pm** Taking down the Nipigon Bridge, Ryan Priestly, Priestly Demolition Inc., Ontario, Canada  
**14:30 pm** Recycling building material in

earthworks and road surface construction; is appropriate usage possible?  
 Stefan Huber, Dr.-Ing. Dirk Heyer, Zentrum Geotechnik, TU München.  
**14:50 pm** Situation of disposal sites in Germany: bottlenecks, remaining maturities and new plans for disposal sites - an overview on the level of Germany's federal states, with Hartmut Haeming, Interessengemeinschaft Deutsche Deponiebetreiber e.V.  
**15:15 pm** DGUV industry regulations, Demolition and dismantling work, by Günter Eisenbrandt, BG BAU,  
**15:35 - 16:25 pm** Coffee break / exhibition visit.  
**16:25 pm** Demolition work during ongoing train operations. Dismantling of the DB high rise building at Essen's main railway station, with Michael Maurer, BST Becker Sanierungstechnik GmbH.  
**16:45 pm** Load safety for heavy machines with Alexander Hoffmann, RUD Ketten Rieger & Dietz GmbH & Co. KG.  
**17:05 pm** Demolition explosives; selected best practices of controlled blasting of buildings by members of the Professional Committee Blasting Technology of the German Demolition Association with Martin Hopfe, Chairman of the German Demolition Association's Professional Committee Blasting Technology  
**17:50 pm** Closing words  
**07:00 pm** Dialogue evening / get together at Station-Berlin (admission starts at 7:00pm, with access only permissible with name badge and admittance bracelet of the 25th Demolition Conference)

## European construction equipment industry at bauma China 2018

bauma China in Shanghai has become a success story since the first event in 2002. In 2016, the total exhibition space of 300,000 m<sup>2</sup> and was attended by 2,953 exhibitors from 41 countries. 170,000 visitors from 149 countries and regions have now shown that bauma China has become the leading international trade fair for manufacturers of construction machinery, construction equipment and building material machinery in the entire Asian region. CECE, as representative of the European construction machinery industry, supports the fair, which was held this year from 27–30 November, in the name of the European manufacturers within the framework of CECE Exhibition Partnership Programme. This programme consists of various packages, and is exclusively available for only a few trade fairs.

Riccardo Viaggi, CECE secretary general and head of the CECE Brussels team, spoke

at the opening ceremony in Shanghai on 27 November 2018, focusing on the performance of the European construction machinery industry. His aim was to convey to visitors the message that European manufacturers are interested in long term business relationships with Asian customers in order to be able to support them with services beyond sales. They are interested in long lasting business relationships based on partnership, within which new solutions and ideas are constantly generated through challenges. Ongoing digitalisation, and the associated necessity to exchange data, means that manufacturers and customers are now networked with each other over long periods of time, but interfaces and machine languages are not yet so standardised that systems can be exchanged at will. Of course, new business models are also emerging, as in the future, data

will increasingly assume the position of financial value.

A second driver for constant innovation is competition. To guarantee free trade, development and wellbeing, the construction industry must build mutual trust through dialogue, with one such avenue being bauma China. In his opening speech, Riccardo Viaggi clearly stated the industry's support for a global rules based free trade system in the face of unilateral decisions and protectionism. The International Associations Committee, IAC, in which all the major global industry associations of the construction equipment sector come together, also offered the chance to share the questions for a more globally acting industry. Given the current situation, and dangers to global free trade, it is therefore important for the European construction machinery industry to be supported by a strong partner such as CECE.

The work of the CECE is shown in such policies such as 'made in China 2025', and major infrastructure projects, such as the 'one belt one road initiative'. These are ambitious efforts to improve infrastructure and connectivity on a trans-continental scale, and are increasing demand for heavy construction and earthmoving equipment. The expansion of road networks, railway lines and airports in China's provinces is making progress. Entire cities are being built, such as the Hengqin special economic zone located between Hong Kong and Macau. The Chinese policy to subsidise local industry in such major projects requires a strong new forward looking European industrial policy. CECE has therefore called on EU politicians and decision makers with a manifesto to focus the 2019 European Parliament elections on the relaunch of industry as a top political priority.



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## PREMYS ANNOUNCED AS NEW MEMBER OF THE EDA

Premys, one of the leaders in cleaning, asbestos removal, deconstruction and dismantling of structures, whether for buildings in urban areas or for industrial installations, has recently joined the EDA. At the forefront of innovation, the company has developed a unique patent for the collapse of buildings by hydraulic cylinders called 'jacking'. With a network of about ten local establishments, Premys contributes to the economic and social development of the regions, with its teams designing and implementing responsible solutions and techniques adapted to deconstruction and asbestos removal sites.

Through its activities, Premys is a committed player in responsible development, including site safety, material recycling, energy savings and reduction of greenhouse gas emissions. Premys is a subsidiary of the Colas Group, which consists of: Brunel Agency, Ferrari Agency, Center Genier-Deforge Grand-Ouest, Agency Genier-Deforge Ile-de-France, Diam Sector, Agency Genier-Deforge Mediterranean, Center Genier-Deforge South West, Agency Perrier Deconstruction, Picheta and Snpr Conflans.

[www.premys-deconstruction.fr/](http://www.premys-deconstruction.fr/)  
[www.europeandemolition.org](http://www.europeandemolition.org)



## Serbian Demolition Association holds sustainable demolition conference

*The Serbian Demolition Association (SDA) held in Belgrade on the 28 and 29 November its annual international conference. The main subject was titled, 'Industry and sustainable demolition or solution', and drew on the experience of companies from throughout Europe and Serbia.*

The conference was opened by EDA (European Demolition Association) president Francisco Cobo Valero. Mr. Cobo Valero recommended in his welcoming speech that Serbian and regional companies involved in the industry, as well as scientific and other professional institutions, should join the Serbian Association. A major reason for this given was that as technical and practical knowledge is crucial in demolition, classification, treatment and disposal of construction waste, with it being necessary to educate both personnel and companies. In Serbia and the surrounding region, these processes can be assisted by the Serbian Demolition Association.

In support of Valero's opening remarks, many participants stated that the conference was extremely important in raising public awareness of the demolition process in Serbia and neighbouring countries. Thus the conference was able to reinforce that the proper classification of construction waste and its disposal is of great importance, not only for the economy of the country, but also for the protection of the environment and the well-being of citizens.

### Expert presentations

Serbian Universities and scientific institutes made 'expert' presentations on the first day of the conference. These were found to be 'extremely interesting', while the second day of the conference was dedicated to the experience of a number of European countries. These included Belgium, Finland, Italy and Netherlands.

One of the most interesting lectures was the experience of the Serbian Institute of Nuclear Sciences Vinca. Dr. Gvozden Tasic talked about the work of the Institute in the

application of new technologies in the field of environmental protection. He cited the experience of the institute in addressing the problem of so-called 'smelly buildings'. Members of the institute were used by the Construction Directorate of Serbia to find how this came about, and how to solve it.

Experiences from Belgium and France were shared by Johan D'Hooghe from the Belgian federation CASO, which deals with demolition and recycling management, while Kai Salmi spoke about the recycling programme in Finland. The unique demolition of Italian city centre buildings by Stefano Panzeri was discussed, including the use of the 'Top-Down-Way' demolition method. Marko Milacic of the French company Suez, which operates in Serbia, spoke of the need to separate waste.

### Educating staff

The president of the Serbian Association, Mr. Bojovic said that this first international conference had been 'highly successful', and it is intended to repeat the event next year. Of the expertise available through the association he said, "The conference showed that there is enough knowledge, strength and power in Serbia to rise and initiate changes in our country and region in this very important area, for which the Serbian Association has been advocating for two years. We have a lot to work on education, we have from whom to learn and what to learn, we have faculties, institutes and other professional capacities, help from the EDA and other colleagues from the country and abroad, who sincerely want to help us define joint activities which will lead to certain legal forms that will enable us to transfer the acquired knowledge into everyday life in Serbia."

## Navy Captain Kent 'Eagle' Ewing to headline CSDA annual convention

The Concrete Sawing & Drilling Association (CSDA) is proud to announce that Captain Kent Ewing, a retired naval officer, will be its keynote speaker during the association's 2019 convention in St. Petersburg, Florida, from 11-15 March 2019.

Captain Ewing was commanding officer of the USS America (CV-66) during operation Desert Storm, and has also flown over 18,500h in over 100 different military aircraft. He holds a Bachelor of Science degree in Economics from the University of California, and a Master of Science in Systems Management from the University of Southern California. Captain Ewing will share stories of his unique experiences leading over 4,000 sailors in wartime, and what lessons on leadership he learned from the navy. By successfully command-

ing men and women ranging from those in their teens to experienced veterans, he will provide CSDA convention attendees with a new perspective on ways to lead and motivate their employees, as well as provide some entertaining stories about life on an air craft carrier.

The CSDA annual convention and technical fair is attended by owners, managers and operators from concrete cutting, polishing and imaging companies, as well as representatives from manufacturers and distributors who support the industry with products and services. Anyone who is a part of this industry should join CSDA for this action packed event. For more information or to register, visit: [WNN.csdas.org/convention2019](http://WNN.csdas.org/convention2019), call 727-577-5004 or email [info@csda.org](mailto:info@csda.org).

## EDA welcomes Okada

Okada Aiyon Corporation is a Japanese heavy equipment manufacturer which has been providing a broad range of sophisticated demolition equipment since 1938. With a European office, the company is continually looking for ways to expand the capabilities and versatility of its demolition attachments, and, as a result of that effort, has become one of the world's leading authorities on hydraulic attachment technology. Okada develops a variety of attachments (hydraulic

breaker, concrete crusher, etc.) to be mounted on excavator, backhoe loader and skid steer loaders, providing solutions for the demolition and recycling industries, civil engineering, infrastructure construction and more. Okada continues working to develop new technology and equipment for the demolition industry and are warmly welcomed as a new member of the European Demolition Association.

[http://okada-aiyon.com/](http://http://okada-aiyon.com/)  
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