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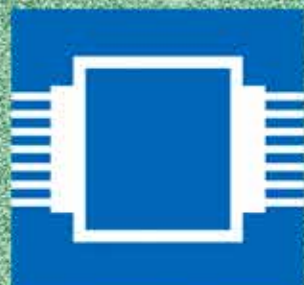


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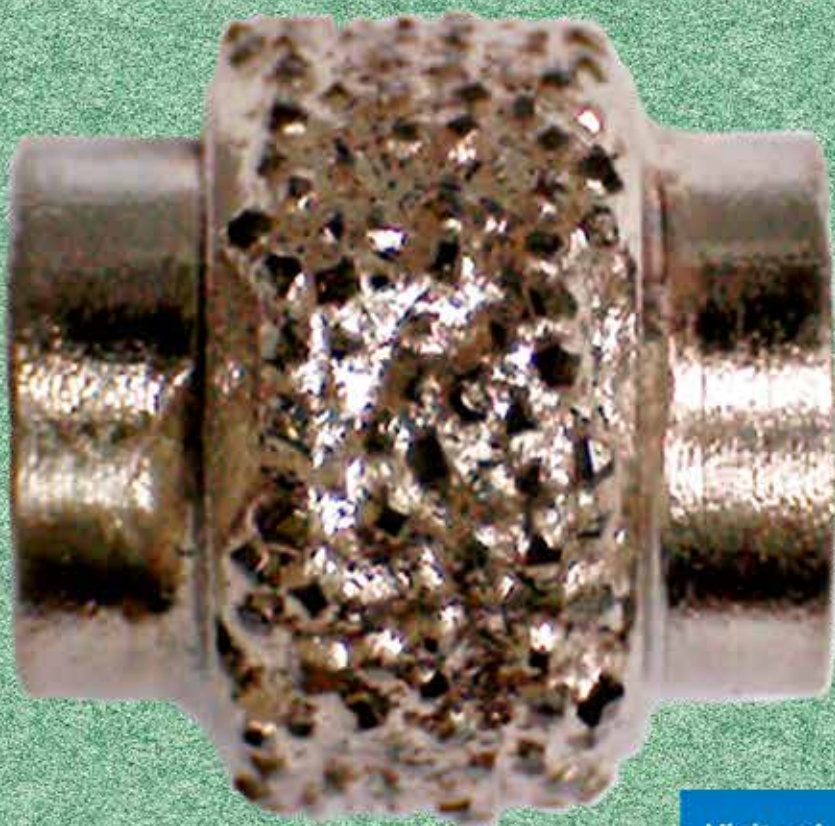




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# See you at Bauma

Dear Readers

It is an exciting year ahead for many reasons and perhaps also a little scary. The year started well with the US show World of Concrete in Las Vegas. It was a successful event and the biggest in seven years and the US building and construction industry is doing well. This year is also special due to the US election in November. It is also now only a few weeks away from the world's biggest construction trade show Bauma in Munich, Germany. Due to the imminence of Bauma many European manufacturers decided not to exhibit their products at World of Concrete.

In Europe the situation is a bit unstable in some markets and also in politics. In the UK there is currently a lot of debate about possibly leaving the European Union and a referendum will be held at the end of June. Even if the UK decides to stay or leave the EU the uncertainty is causing a lot of stress in the market and between Europe's member states. Despite the future referendum the UK market continues to show positive results and overall mainland Europe is also doing well at present.

For instance Sweden's capital city Stockholm currently has the fastest growth in Europe with one large construction project being released after the other. The construction market in Stockholm is booming right now. Consequently there are many concrete cutting and demolition firms seeking jobs in the capital, causing the sectors to over heat, but it is the right place to be for suppliers to these industries.

With a strong construction industry the need for new and more efficient tools and machinery is paramount. Therefore large shows like Bauma are important and will attract a lot of visitors this year, especially from Europe.

This is PDi's Bauma preview issue with comprehensive features on new products that will be displayed at the show. Some of these products were introduced at the World of Concrete show, which is also reviewed in this issue.

Also included in this issue are two articles from Australia. One focuses on the supplier and manufacturer Traxx Diamond Products and its founder Lloyd Williams. The other is a report on the recent Concrete Sawing and Drilling Association of Australia's Annual Convention.

There are also several interesting notices, business briefs, reports and job stories in this issue.

I also would like to take this opportunity to welcome you to visit PDi's booth 136 in Hall 1. This year we are sharing the booth with PDi's sister magazine Professional Demolition Americas PDa.

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

### The busier the better!

It has been a very busy start to 2016 and it shows no sign of letting up. This is great news and the busier the better, I say.

I am writing this column in between the fantastic World of Concrete event and the forthcoming Bauma in Munich in April.

There was a real buzz in Las Vegas at WOC and there was certainly a feeling that the industry is on the up again. At the time of writing, I haven't had the official attendance figures, but it felt much busier than I can remember in terms of visitor numbers. It was confirmed before the show that there was more floor space taken up by exhibitors than at any time in the last seven years. If that is not a sign that confidence is returning, then I don't know what is. Of course, we can all see that there are signs of some global economic difficulties, but that does not seem to be dampening the spirit of the industry, which is great to see.

I have spoken to colleagues at the Concrete Drilling and Sawing Association, and they say it is the best take-up of their training courses at the event since they started offering them there back in 2010.

One of the themes running through my columns has been on training and development, so I was delighted to hear this news and that a training course the CSDA ran in Florida a few weeks before WOC on the use of robotic demolition equipment attracted 15 students.

There were also 75 people in attendance at its Next Generation networking event at World of Concrete, the people who are the future of our industry. This is music to my ears and gives me great confidence that we finally have a future generation of people to pass our wonderful industry onto.

I never win a penny in Vegas so at least I can get excited about what is going on with our industry. As I keep telling the press in the UK, concrete cutting is sexy. [#concretecuttingissexy](https://twitter.com/concretecuttingissexy)

So we move onto Bauma in April and another event I am very much looking forward to and it runs alongside our International Association of Concrete Drillers and Sawers event and meeting from April 15 to 17.

This is a brilliant opportunity to network and discuss the latest industry developments. It is a good mix of formal and informal sessions and I find that is the best way to get the conversation going. That is why we are having a drinks reception on Friday, 15 April at 5.30pm at the Fachverband Betonbohren und -Sägen



Deutschland stand 138 in Hall 1. Pop along and join us for a beer.

I hope to see as many of you as possible there and I am really keen to hear how everyone's business is faring and what the trends are on a country-by-country basis, but also globally.

Of course, I am also there to have a bit of fun too, you know what they say about all work and no play.

That's why we are having a social dinner on Saturday evening followed by a meeting on April 17 starting at 9am and we are always happy to have guests at the meeting and also suggestions for topics to discuss. You can find more details here: <http://www.iacds.org/calendar/activities/iacds-annual-meeting-2016>

I have no doubt that the topic of the EU referendum that is being talked about in the UK will crop up in conversation – it's certainly dominating the media in the UK at the moment and I am sure it will continue to do so for many months to come.

Again, I'd be very interested to know how other UK companies feel about the referendum and also how this debate is being viewed both inside the rest of the EU and outside of it – is the UK heading down an unknown path?

Once again, BAUMA will also be a chance to showcase the very best of our industry through the Diamond Awards. I hope you have all managed to get an entry in ahead of the February 29 deadline and that we have another fantastic winner to show the world what we do best! More information is here: <http://www.iacds.org/calendar/activities/diamond-award-2016>

Please, in the meantime, feel free to drop me or the IACDS a note with any thoughts or feedback at [info@iacds.org](mailto:info@iacds.org) and please do copy me in at [juliewhite@d-drill.co.uk](mailto:juliewhite@d-drill.co.uk)

See you at BAUMA!

**Julie White, President of IACDS**





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## Words from the EDA President

# Hazardous (waste) times

Just a few days ago, the European Decontamination Institute (EDI) held in Brussels the very first European Decontamination Forum, to highlight the urgent need for a proper framework to identify, remove and handle hazardous waste from construction and demolition sites.

Of course, we all know about asbestos. We, the demolition industry, have been dealing with it for decades now, removing what was originally considered a "star" material, with so many benefits and excellent properties.

Even today, there are lots of countries in the World that still allow to produce and commerce with asbestos.

But we had to go beyond asbestos, and for that reason, EDI organized this first forum. The demolition industry is concerned about the health and safety of its workers, and really suspected there was much more.

A few other substances are starting to gain more relevance as hazardous waste: heavy metals (lead, copper, zinc,...), some carcinogenic substances, silica dust and the big, big problem will be the group called Persistent Organic Pollutants (also known as POP).

Even though most of our industry does not know about this, there is every year an International Conference (each year on a different country of the World) with hundreds of professionals discussing about POP.

POP are substances that are produced by humans (not found in nature) for multiple reasons (for construction products, pesticides, glues, oils, stabilizers,...) and those substances cannot be processed by our bodies, so they produce all sorts of pathologies (cancer, allergies,...).

Just to give some figures, there are almost 2.000 POP under surveillance now, and only about 20 are forbidden to produce and commerce with (as they are already identified as they can be replaced by other substances). Some of these 20 forbidden are PCB, some flame retardant types,...

That does not mean that the rest of them are not harmful. Scientists are looking for replacement for those POP and on the mean time the industries can still include them on their products (!!!!!).

Were you ever told to be aware or search for flame retardants containing POP in ANY demolition site? Believe it or not, this is a forbidden substance and hazardous waste since 10 years ago.

We feel like we are missing information, and for this reason EDA created the European Decontamination Institute,

which is now starting to work on these issues.

But the first findings of the work done by EDI are scary, to say the least. We are all surrounded by hundreds of potentially hazardous substances, from which we know very little, and very few people seem to be interested to take care of this.

Just to give you another scary number. According to the website of the European Agency for Chemicals (ECHA), just by searching for chemicals under surveillance on the European REACH on building materials you will find over 800 substances.

Well, you get the idea. It is hazardous (waste) times.

If you are interested in getting involved or have feedback please contact EDA at: [www.europeandemolition.org](http://www.europeandemolition.org)

**Pilar de la Cruz**  
**President of the European**  
**Demolition Association**

### About EDA

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

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



**Pilar de la Cruz, EDA President, VD Voladuras Demoliciones y Desguaces SA, Spain**



## Latin American Concrete Cutting & Demolition Forum postponed for the second time

The Brazilian economy went into free fall in 2014 due to a political and economic crisis. The planning of the Latin American Concrete Cutting & Demolition Forum started when the economy was buoyant. But due to the rapid reversal the Forum has been postponed for the second time.

In 2012 and 2013 there was a positive mood in Brazil and throughout South America. Commodity prices were up, the economy was improving fast and the Brazilian currency was strong. The Brazilian construction industry was buoyant and there was a big appetite for machinery and tools. Also there was high demand for demolition, concrete cutting and concrete floor grinding services, especially in the southern regions of Brazil. This situation was an ideal opportunity for an international gathering of suppliers to these sectors and plans were made to stage the Latin American Concrete Cutting & Demolition Forum. This would have been the first to be held in Rio de Janeiro in conjunction with a number of Brazilian, European and US associations.

### Crisis in Brazil

But as this Forum was being organised Brazil entered a political and economic crisis. The Brazilian currency almost halved, putting Brazilian contractors in an almost impossible situation. The horrendously high taxes on imports, combined with the weak currency, made it impossible to work or make any money. Consequently millions of Brazilians have lost their jobs.

Therefore the Forum, first planned for October 2015, was reluctantly postponed to August 2016. It has now been cancelled again and is now planned to be held in

August 2017 in conjunction with the Concrete Show in São Paulo. "All those that we have been talking to about the Forum since 2013 have been overwhelmed about the Brazilian market. The Forum was the perfect opportunity for foreign manufacturers to market their products in Brazil," said Forum project manager Jan Hermansson. "We had so many companies that wanted to exhibit and participate in the Forum a couple of years ago. But due to the dramatic change in Brazil the climate is currently not right for such an event. In addition there is also the Zika virus and Dengue fever to contend with."

"We have established good contacts with a number of associations in Brazil working in the fields that the Forum would cover. We have their full support so it is a real pity that it is not possible to stage the Forum at present," said Forum representative in Brazil Eduardo Kubrick.

### Still great potential

However, Brazil has great potential for many sectors, such as concrete cutting, demolition, concrete floor grinding and polishing, recycling, hydrodemolition, dust extraction and slurry containment. There is very little of this equipment in Brazil or information about the right and efficient methods for offering these services. "We are not giving up on organizing this Forum. But at the moment we are postponing the event until Brazil recovers," said Hermansson.

[www.latindemoforum.org](http://www.latindemoforum.org)



## DYNASET CELEBRATES 30<sup>th</sup> ANNIVERSARY

The Finnish manufacturer of hydraulic equipment, Dynaset will celebrate its 30th anniversary this year. The company was founded and established in 1986 by general manager Reijo Karppinen. Since then the company has

developed a comprehensive range of hydraulically powered equipment including generators, compressors, grinders, pumps, winches, welders, valves, pressure washers, pipe cleaners, dust suppression units and magnets.



## Trevi Benne goes to press

During Bauma the Italian manufacturer Trevi Benne, which will be based in Hall B3 -414, will present a magazine entitled 'We are Demolition'. The move follows the transformation of the brand and the company's message. The project has a photographic

style and high impacting graphics and will feature jobsites, emotions and passion of people who work every day in demolition. It will be a tribute to our world, made by real men, machines, talent and challenges to overcome.



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## CASE EXPANDS ITS NETWORK IN ICELAND

Gröfubjónusta Steins, a contractor based in southern Iceland has taken delivery of a CASE 695ST backhoe loader, from the newly appointed sub-dealer, Vélaborg Vörumeðhöndlun, in collaboration with the Danish dealer, S.D. Kjærsgaard.

The two companies have signed an agreement, which gives Vélaborg Vörumeðhöndlun access to CASE equipment, service support and parts backup offered by S.D. Kjærsgaard. Under this agreement, Vélaborg Vörumeðhöndlun is the sole distributor for CASE equipment in Iceland.

"We are very pleased to bring CASE back to the Icelandic market" said Vélaborg Vörumeðhöndlun marketing and sales manager Ólafur Hjalti Erlingsson. "CASE is a premium brand and with its full range of machines we will be ready to meet the diversified needs of our customers and look forward to further developing the brand. The sale of the new backhoe loader and other machines on their way is a great starting point for our partnership with CASE and S.D. Kjærsgaard."

"After several difficult years Iceland is finally gaining momentum, and it is the right time to put in place an official local representative for CASE," said CNH Industrial Nordic, Benelux and Central and Eastern Europe business director Barbara Caporali. "Vélaborg Vörumeðhöndlun has a strong background in the country's construction industry and will be able to further strengthen our presence. With this new collaboration, we have a dealer who can provide the highest levels of service to both new and existing CASE customers."

"We have seen an increasing interest for CASE equipment in Iceland and we are very pleased with this agreement with Vélaborg Vörumeðhöndlun," said S.D. Kjærsgaard chief executive Palle Kjærsgaard. "They are a key player in the country's construction machinery sector and they have been in contact with most of the owners and operators that are running CASE equipment, so they already have a long association with the brand. The company also has the ideal location to serve all CASE customers, and with our support, they will be able to offer best-in-class service, which is of key importance for any construction business."

## Rockster Recycler expands in North America

The Austrian mobile crusher and screen manufacturer Kormann Rockster is expanding its US network with Daniel Civinski joining the company.

He has 20 years of experience in crusher operating, mechanics and after sales support and is a competent partner for dealers as well as for customers. "Once I found out the reliability and ease of operation I was convinced of Rockster crushers," said Civinski. "I wanted to grow with a company that supports end users as well as the dealers. The patented duplex system finalized my decision to work for Rockster. Knowing that a small contractor can use this crusher and repair it with the operator and not a special technician makes it one of the best crushers for me to support."

The Duplex system enables the exchange of impact crusher and jaw crusher and vice versa on one basic chassis within a few hours. This technology allows flexible recycling, operating with hard stone, asphalt, concrete or

any other construction and demolition waste. The hydrostatic drive system provides the base for the system. It allows a continuous variation of the crusher speed as well as a clockwise or anti-clockwise operation of the crusher. Through this drive system Rockster customers have several advantages, such as operation convenience, and due to the absence of a conventional clutch it is free of wear. The maintenance is simple and high performance across all applications due to optimum adaptation to the various requirements.

"My goals this year are to make a strong dealer network, get our name to be truly worldwide, make as many Expos as I can and let people here in the USA know I am here for them," said Civinski. "I will let dealers and customers understand we are Rockster and are here to support them 100% from sales to aftersales and have the machines and parts warehouse here in the US setup for all their needs."



## Joy Global to highlight Montabert at Bauma

Nearly one year after acquiring Montabert from Doosan Holding France, the US based company Joy Global will highlight Montabert's rock drills and breaker products alongside its crushing and conveying line at Bauma.

Montabert will continue to develop new technology and products, with the support of Joy Global's worldwide network. "Montabert's rock drill products and rock breakers complement our expanded offerings for the hard rock market, an exciting growth area for Joy

Global," said Joy Global chief executive and president Ted Doheny said at the time of the acquisition.

Joy Global also plans to highlight its Joy crushing and conveying solutions, including belt conveyors, hydraulic hammers, drilling equipment and systems, and pneumatic hammers.

Joy Global also manufactures, sells and services Joy underground and hard rock mining equipment and systems, and P&H surface mining equipment.

## Sandvik conference celebrates distributor performance

The 2nd annual Sandvik Construction Mobile Crushers and Screens Global Distributor Conference was held in January. About 120 delegates from 60 distributors in 40 countries received updates on the Sandvik Construction business, product brief-

ings, as well as joining in other activities aimed at helping customers world-wide. This year's conference focused on how to improve customer service and how best to continue to meet and exceed customer requirements.



## BROKK CELEBRATES 40 YEARS OF INNOVATION

During 2016 Brokk will celebrate 40 years of innovation as the world's leading manufacturer of remotely controlled demolition machines. The first Brokk machine was introduced in Sweden in 1976. Since then Brokk has played a leading role in making demolition robots a vital tool for many projects and industries across the world. The company has created a special golden logo to commemorate the anniversary.

The history of remotely controlled demolition and the history of Brokk is one and the same. It all started in 1976 when two entrepreneurs in Skellefteå faced a confined space demolition challenge that led them to develop the world's first demolition robot. This machine led to the establishment of the company, and Brokk has continued to innovate and solve increasingly complex demolition problems ever since.

Brokk has since delivered well over 6,000 demolition robots to more than 100 countries. What started as a niche machine for very special needs is now a mainstream part of many demolition, process, cement, nuclear decommissioning and underground projects.

"It's with pride and excitement we are celebrating 40 years of innovation in the remotely controlled demolition industry," said Brokk Group chief executive Martin Krupicka. "Our products have not only changed the nature of the demolition business, but they have also improved the environment and safety for contractors and operators worldwide. That is definitely worth celebrating."

The anniversary celebration started with a pre-product launch in January of the new Brokk 120 Diesel, the world's smallest diesel powered model. This was followed with participation at the World of Concrete in February. The company will also be exhibiting at Bauma and will host a customer event on the 20 April at their booth. Brokk will also attend a number of other major exhibitions during 2016.

Brokk has also designed a special logo with the slogan 'Original Demolition Power since 1976'. This will appear in Brokk marketing material during the year and every machine that leaves the factory will have a golden stamp.

The anniversary will also be celebrated on social media on Brokk's Facebook page where customers will have a chance to share photos or videos of their Brokk machines. Each month Brokk will choose one winner to be a part of a virtual book, created especially for the celebration, and the person submitting the best photo selected every month will receive a unique Brokk jacket.





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## **DR. SCHULZE CONFIRMS COMMITMENT TO EUROPEAN PRODUCTION AND OPENS A NEW PLANT IN A UNESCO CITY**

The fast changing global economic situation of recent years, especially the drastic depreciation of the Euro against US dollar and Chinese Renminbi, has strengthened the position of construction equipment manufacturers with European based production facilities and improved their competitiveness against Asian producers. Also the German company Dr. Schulze was faced with increased volume of incoming orders for light construction equipment and utilized its production capacities to the maximum.

Dr. Schulze decided to open a new factory for the main bulk products in its light construction equipment range, keeping the production of special equipment in a factory opened in 2011 near Berlin. The city of Kromeriz in the eastern part of the Czech Republic was chosen as the location for the new factory. Being famous for its UNESCO listed gardens and castles, Kromeriz has excellent infrastructure with various component suppliers and well qualified manpower.

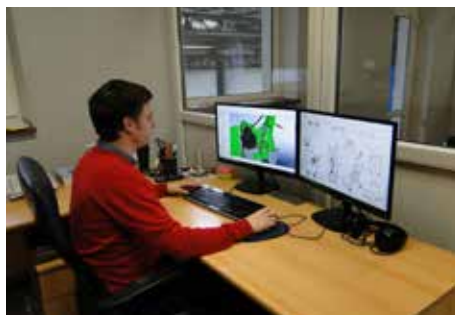
It is no secret that in last 10 to 15 years the main share of European produced light construction machines, like table, floor and block saws were suppressed by Asian product manufactured with low labour costs and cheaper components. Dr. Schulze believes to be able to reversing this trend by enlarging its production capacity and extending manufacturing penetration in order to have complete in-house production from material to final product with powder coating.

In the first half of 2015 Dr. Schulze opened its new Czech premises and fulfilled initial customers' orders

in June 2016. The present product range produced in Kromeriz includes block saws up to 1m diameter, various specifications of table saws, electric and gasoline floor saws, floor grinding and floor milling machines, as well as shot-blasters.

The flexible production enables the Kromeriz plant to develop and manufacture the standard Dr. Schulze machines and also customized products for OEM customers. Besides the quality management system and extended product range Dr. Schulze's customers take advantage of much shorter delivery times compared with Asian suppliers.

Using the latest computer aided design tools, engineers are improving existing machines and developing new products. In the first weeks of this year Dr. Schulze's Czech company, and especially development division, has operated at over 100% of normal capacity in order to present new products at Bauma on stand 149 in Hall 1.







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# A CRUSHING BOUQUET

Bauma is only a few weeks away but some manufacturers of crushing buckets have decided to release details of their equipment before the huge exhibition. Jan Hermansson reviews some of the equipment that will be on show.

## Atlas Copco's new BC bucket crushers

At Bauma in booth FS 1108 in the outdoor area Atlas Copco will present its new BC bucket crushers claimed to offer up to 80% higher output than previous models. Designed for carriers from 22t to 38t, they are available in two versions, BC 2500 and BC 3700. The BC 2500 and BC 3700 bucket crushers, with a circular crushing cycle are capable of crushing up to 110t/h. They are aimed at small demolition, recycling and road construction applications, as an alternative to a mobile jaw crusher.

The twin-drive system has two hydraulic motors and full load capacity can be used without blockage and slippage during start-up. An automatic anti-lock mechanism provides continuous repositioning of material, ensuring large pieces are guided automatically in the direction of the crushing jaw. If material jams, the reversing function allows the operator to change the rotation direction, pushing the material back into the inlet to remove the blockage. Users can adjust the jaw outlet without special tools.

All types of inert material can be crushed and reused on-site or sold on using a rig-mounted BC bucket crusher. This requires only one operator to handle the demolition attachment and the bucket crusher.

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



## New generation from MB

Italian manufacturer MB Crusher will launch its third generation of crusher buckets at Bauma in the demonstration area. The new generation, which has been designed for all excavators, has been further expanded. Thanks to a dust suppression system and reduced noise level they can be used on sites in residential areas and in compliance with environmental regulations.

The MB buckets are claimed to be the only ones that do not need drainage. MB's crushing output exceeds 110m<sup>3</sup>/h, thanks to the exclusive power enhancer, which allows the crushing of materials, such as basalt and granite, in compliance with the high quality standards required for waste material reuse.

MB buckets are effective and eco-friendly in demolition, recycling, excavation, road works, quarries, mines and environmental remediation. MB Crusher is the only manufacturer offering a range of 18 buckets, crushers and screeners for excavators, loaders, skid steer loaders and backhoes from 2.8t to 70t with a two-year warranty.

[www.mbc crusher.com](http://www.mbc crusher.com)



## Three new products from BAV Crushers

The UK manufacturer BAV Crushers will introduce a new crusher bucket and new rotary screener at Bauma. The new crusher bucket, BAV-CB, is for reducing on site rubble, bricks, blocks, concrete and rock to a reusable aggregate. The new rotary screening bucket BAV-RS has been developed for sorting material pre and post crushing and for cleaning of topsoil.

BAV Crushers is also launching a new jaw pulveriser BAV Alligator at Bauma for ripping up slabs, demolishing walls, cutting rebar and primary crushing.

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



## Japanese crushers on the go

UEDA Industries and attachment manufacturer from Osaka, Japan, will also be at Bauma on stand 500 in Hall B3. UEDA is a big player in its domestic Japanese market with an extensive product range containing a large number of different attachments for demolition, crushing, screening, scrap handling and pulverizing. The different attachments are divided into nine products groups of bucket crushers, combi magnets, concrete crushers, bucket shredders, calm screeners, steel cutters, clamp alligators, green alligators and vibro slope buckets.

[www.uedaturb.co.jp](http://www.uedaturb.co.jp)





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### Ecomeca crusher buckets

Ecomeca from Finland has developed a new crusher bucket, which the company claims is three times more productive than existing machines on the market. Ecomeca has different models available for excavators from 18t to 50t including models for use on wheel loaders. At Bauma the company will show the model Ecomeca 145, which can be installed on 28t to 40t excavators. Several patents and patent applications in more than 40 countries support the concept Ecomeca has developed.

The Ecomeca crusher bucket is different from existing crusher buckets, as it has one or two rotating drums. The construction is a combination of screening and crushing. The open drum construction makes screening possible, and the easily changeable hammer bits crush the materials. With Ecomeca, even rebar is not a problem, and by reversing the drum or drums, it clears itself. The drums crush the material down to 50mm to 150mm, depending on the setting.

The Ecomeca technology allows crushing of dry, wet and even sticky materials. The crusher incorporates a fail-safe hydraulic valve and an overload clutch to prevent breakage.

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



### Hartl bucket crushers

Hartl from Austria will show its equipment on stand 226 in Hall B2. The Hartl bucket crusher stands out for highest throughput and good shape of produced end material. The Quattro movement of the jaw crusher is fitted with an up thrust toggle system.

The main advantage with Hartl's products is the motion that cracks the material in the upper area of the crusher. This allows bigger blocks can be accommodated and crushed in a downward direction into the chamber, compared to down thrust toggle jaw crushers. The special motion provides better throughput in the middle area and a form of secondary crushing in the lower area providing an excellent cubical shape of the end material.

Finished products are tested for two hours on a test rig where various operating parameters are checked prior to delivery to customers.

In early 2015 Hartl launched the HSP3300 screen plant that fits in a 20ft container and is ready for work



## SIMEX'S SUCCESS IN AUSTRIA

One of the new Simex VSE screening buckets was a recent success in Austria assisting in the installation of the water pipeline for the Rellwerk hydroelectric power network.

The Rellwerk power station is part of infrastructure works to modernize and upgrade the hydroelectric power network of Voralberg, the alpine region of western Austria. Financed by the European Investment Bank, the station is part of a hydroelectric complex that will produce 13.5MW. Started in late 2014, works to build the power station include creation of a reservoir, pumping station, power plant and a pipeline network.

Konhofer based in Sattens, Austria was one of the contractors assigned to work on the power station, including installation of a 1m diameter pipeline for conveying water to the reservoir and pumping

station. Once the pipeline was laid, the pipe segments were welded together and covered with gravel.

The site was congested and difficult to transport backfill along the narrow road adjacent to the pipeline and often delayed by the welding operations. On the suggestion of one of Simex's Austrian dealers, Otto Wohlgenannt, Konhofer rented one of the first VSE 30 screening buckets. The attachment screened the excavated material accumulated along the welded pipe to the correct size and then covered the pipe using the bucket.

With a capacity of 0.85m<sup>3</sup> and an empty weight of 1.79t bucket the VSE screening bucket is the ideal machine for 18-24t excavators. Like the larger VSE 40, the VSE 30 allows the output size of the screened material to be adjusted from the cabin by an electric command.



## SUCCESSFUL SCREENING IN NORWAY

A Trevi Benne BVR 12C screening bucket mounted on a 14t Kobelco E135R excavator has played a key role in cleaning oil and fuel spillage in Norway. Over 1,000t of crude oil and 1,200litres of diesel fuel released into the North Sea from a tanker in a heavy storm contaminated the Norwegian coastline.

Bamble Council, responsible for the clean up decided on the Kobleco and Trevi Benne option.

Bamble and Lian Scandinavia modified the bucket for cleaning the polluted beaches. They recycled the contaminated stone and gravel using

bark and peat to produced a clean and oil free material. This method is claimed to be revolutionary as normally at 150 workers would be needed for a long time to complete the task.

Special custom-made netting has been used to assist in screening and cleaning the stone and gravel at about 15m<sup>3</sup>/h to 20m<sup>3</sup>/h. The depth of the oil pollution was down to 700mm in the ground and the screening bucket offered the advantage to dig and screen directly in place, saving on time and transport cost.

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

with in an hour. It can be used in natural stone processing and recycling materials with three and four fractions.

Hartl will also launch another new product to be announced at Bauma. "Our new solution will change the way of mobile crushing and screening for the next decades. The world market launch is at Bauma and we are proud to say that this will be the greatest invention since our family introduced the track mounted crusher in 1986," said Hartl joint managing directors Dominik and Alexander Hartl.

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

### New updates for Robi MM range

Robi has launched new cleaning combs for its screening buckets. Customers screening clay or similar sticky material have requested easily changeable combs. Robi has also launched a new model MM154 HD for pipe-

line and other heavy-duty applications. The gearboxes and axels are the same as on the MM154, but frame is more robust.

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



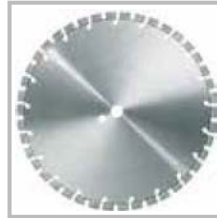




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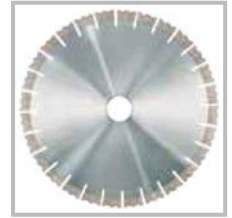
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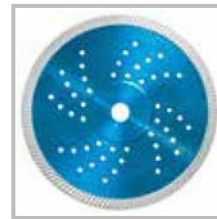
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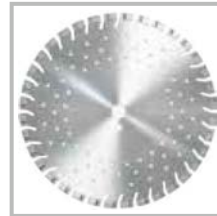
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BAUMA will be another mile stone towards new product innovation. BAIER will present a total of 5 new products to the market.

A mile stone in the field of channel cutting is the new BDN 125. The BDN 125 has a complete new and patented dust suction which does redefine the description DUST-FREE. The BDN 125 is lighter, stronger and cleaner than any channel cutting system in the world. It's the perfect machine to have always along. The high torque ensures an easy work and the BAIER doesn't have to be explained at all.

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

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## NEW CK SERIES FROM VTN

VTN Europe is introducing a new Combi Kit multitool. Thanks to its innovative features, this attachment meets the largest variety of complex demolition requirements, according to the manufacturer. The multitool is particularly suitable for specialized demolition contractors focused on safety, efficiency and productivity on jobsites, rental companies focused on the demolition market and users who try to combine several services with as few tools as possible.

The new VTN Combi Kit is multipurpose because lets you run any type of demolition task in one tool like primary and secondary crushing as well as selective handling of waste to be recycled.

The CK series is versatile as it allows one equipment to have five jaws configuration; D Jaws for Primary and Selective demolition, P Jaws for Primary and Secondary demolition, Jaws for Primary, Secondary and Selective demolition of steel structure, R Jaws, a compromise between D and S jaws and CH Jaws for Primary and Secondary demolition to reduce in small pieces of concrete elements.

The CK series is fast and safe because it need only few minute for the replacement of the jaws with the rotation by removal of only two pins. The series contains of CK14 for excavator between the 13 and 21 ton, CK21 for excavator between 18 and 27 ton and CK28 for excavator between 26 and 35 ton. VTN will show the new range at BAUMA 2016.

[www.vtn-europe.com](http://www.vtn-europe.com)





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# THE WORLD IS WATCHING

*World of Concrete, the annual gauge of the concrete industry's health, shows a distinct warming trend. Jim Parsons reports.*

Unseasonably chilly Las Vegas temperatures may have disappointed some World of Concrete visitors seeking a respite from their wintry homes. But enthusiasm for the annual exhibition of the latest in concrete construction and demolition equipment was as warm as ever. Organizers proclaimed this year's show to be the largest in seven years, with 60,110 registered professionals and more than 1,525 exhibitors occupying just under 69,111m<sup>2</sup> of space.

#### **Bauma gave effects on the news level**

No doubt there was more on visitors' minds than just whether they had packed properly for the weather. The good news of a recently passed US highway bill and upturn in the housing market competed with the uncertainties of the impending Presidential election, China's downward economic spiral, and the effects of plummeting oil prices, which may mean good news at the pumps, but grim prospects for those who work closely in the energy sector.

And with Bauma looming in April, European manufacturers seemed to have a lower profile at WOC, perhaps preferring to give their backyard markets first crack at new product offerings.

A notable exception was Brokk, which previewed its new 120 D demolition robot. Billed as the world's smallest diesel-powered demolition robot, the 1.2t, and 787mm wide 120 D is a counterpart to the company's popular B100 electric-powered model, but does not





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require a separate power source. A 18kW Kubota engine allows the 120 D to operate up to 10h on a single tank, while the 300kg lifting capacity supports the B100's range of heavy-duty hydraulic attachments.

"The 120 D fills a gap in the diesel-powered demolition machine market, with its ability to perform medium construction tasks," said Brokk North American vice president Peter Bigwood. "Other machines in this category are smaller, designed mainly for inspection-type jobs, or are too heavy at 4t or more to do confined space work. The 120 D also provides the flexibility for use in quick, short-term jobs."

Similarly Hilti made sure its outdoor display was worth a venture into the cold air, with the new handheld DSH 700-X and DSH 900-X 70cc gas saws. These are the first of Hilti's 45 new product introductions this year. The saws are easy to maintain and to start thanks to a new automatic choke technology called Easy Start. The saws are also matched with a new range of blades tailored for the North American market.

Hilti also showed its new HIT-RE 500 V3 adhesive anchor system, which has a temperature range of -5°C

to 40°C, and the shortest curing times for any epoxy. Thanks to a 60% increase in load performance, the HIT-RE 500 V3 is ideal for applications such as structural connections with post-installed rebar, substituting of misplaced and or missing rebar, and anchoring structural steel connections.

Hilti's SafeSet with the hollow drill bit and VC20/40 vacuum, allows contractors to perform chemical anchoring applications more efficiently and reliably. When used with the new TE-YRT roughening tool, HIT-RE 500 V3 can be utilized in both cracked and uncracked concrete cored holes, greatly reducing the cleaning typically required for cored-hole installation.

Husqvarna Construction Products was one of few manufacturers with quite a number of new products.

Husqvarna presented a brand new floor grinder, Husqvarna PG 680 RC, with a unique oscillation function. This allows the operator to mimic manual operation movements for higher efficiency and greater productivity. At the same time, PG 680 RC is flexible and fits through a standard door opening. Another advantage with oscillation is that you get a broader





sweep of the grinder when operating and this reduces ridging on soft floors. The remote control function that comes with PG 680 RC can also be tailored to different surfaces to achieve superior results.

Of course, PG 680 RC comes with a lot of the advantages of the already existing, best in class, PG 820 RC, PG 820 and PG 680.

Husqvarna also introduced a new power pack that give the contractor all he needs included in one system. Husqvarna PP 490 is designed to be used with Husqvarna WS 482 HF, including the wire saw Husqvarna CS 10. New for PP 490 is that it can be used to power the Husqvarna PRIME™ power cutters and drill motor. This means that the contractor get more work done with less equipment.

Husqvarna also launched an updated version of the roadsaw FS 3500 G, a self-propelled walk-behind floor saw with a 37 hp (27.5 kW) Kohler gasoline engine.



The new FS 3500 G is a modern floor saw with sturdy design that is perfect for small to medium patch- and service jobs. Husqvarna also showed some new updated table saws as well.



The outside lots of World of Concrete was actually flooded with in particularly concrete cutting equipment and even more concrete floor grinding and polishing equipment.

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Inside the Convention Center, Genesis Attachments showed its new GDT 290, one of the company's new lighter-weight GDT Razer demolition tools. Optimized to fit on a standard 30t class excavator and most high-reach demolition machines, the GDT 290 features a short, flat-top head with bolt-on bracket that simplifies installation, shortens the centre of gravity, and makes it easier to switch the tool between excavators.

Genesis can also customise profiles of the crushing teeth to meet users' needs. The plates can also be switched out and reversed front to back to even out wear, extending the life of the teeth and lowering cost of ownership. Other features include an apex design that draws material deeper into the jaw for more efficient cutting, a pass-through lower jaw to prevent material build-up and jamming, and a reverse-mounted cylinder that is protected from damage during operation. The GDT Razer is also available in a 190 model for 20t class excavators. An even larger 390 model will be introduced soon.

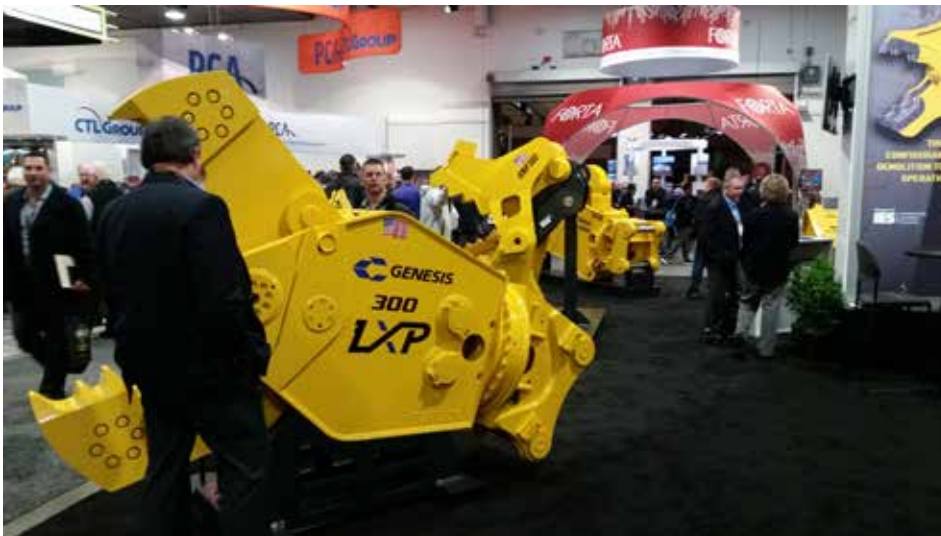
### The year of propane in surface preparation

Though demand for polished concrete floors remains strong, the market for grinders and polishers appears to have experienced a natural shakeout, with many recent upstart manufacturers absent from WOC.

The survivors are not simply resting on their laurels, however. Superabrasive introduced the latest addition to its Lavina line, the new 635mm, self-propelled L25M-X grinding and polishing machine. Along with 168kg of grinding pressure, the 315kg L25M-X has a second motor that propels the machine and provides a steady speed and consistent scratch pattern. The self-propelled motion makes grinding much easier for the operator and minimizes the risk of mistakes, improving productivity and reducing time on site.

Superabrasive also unveiled a new Lavina V-32-G propane vacuum featuring a Kawasaki propane engine, Longopac bagging system, and HEPA filter. The V-32-G will be available for sale in the summer.

Propane was also the rule for other grinding and polishing introductions. Scanmaskin showed its new 648mm Scan Combiflex 650 propane with a 11kW motor, and full-blown planetary heads. This is the manufacturer's second propane driven grinder. The larger Scan Combiflex 800 propane was introduced a year ago. DITEQ showed its 16.4kW, 762mm TG30, which has 159kg of grinding pressure and a quick-change tooling plate.







HTC introduced its first propane driven grinder at the show. It is a 20kW version of its 813mm 800RXP, which is remotely controlled, along with 240kg to 329kg of grinding pressure. "So many projects take place in buildings that don't have power, which makes it expensive to run a generator all the time. It just made sense to put propane on our best-selling grinder," said HTC sales and technical support group representative Todd Lambel.

"We've mostly been oriented to electric, but customers are asking for propane," added HTC vice president product development John Ripperman. "The BMG 735P features a quick-change belt system that can be replaced in as little as 30 minutes. Time is everything and the three hours it takes to disassemble and repair other grinders can ruin productivity. Just undoing 12 bolts on our machine is all you need to get to the belt, which is designed to serve as a fuse to protect the more complex and expensive components from damage."

Also dipping a toe into the propane market was Diamatic, which showed its 26kW BMG 735P with a variable working width of 182mm to 686mm.

There is still a place for electric-powered equipment in the concrete grinding and polishing business. Aramsco showed a 110V, 120kg, 432mm grinder that part of its new Tru-Brand product line, while US Saws exhibited a range of new electric products including the 254mm VSG 10, with a 115V, 3kW variable speed high torque motor. The VSG 10's adjustment wheel allows the grinding plate to be angled as needed, while the weight bar can be positioned for aggressive weight.

To help power these tools, Honda unveiled three of its generators with ground fault circuit interrupter technology. This safeguards users from electrical shock by shutting down the circuit when current is flowing along an unintended path. Leading the models is the EB6500 Industrial Series generator, which provides 6.5kW at 120/240V.

The EB6500 also features intelligent automatic voltage regulation power feature that can produce up to 7kW of power for 10s, allowing users to start high-amp load applications, such as air compressors, that require additional power to start. In addition, the Honda EB6500 boasts a long run time of up to 10.4h at 50% for extended work hours.

Other Honda models are the 5kW EM5000 deluxe series generator, and 4kW Honda EG4000 economy series generator. Honda also introduced a cyclone air



cleaner for some Honda GX series commercial engine models beginning in 2017.

### Wheeled wonders

Because construction and demolition contractors are often just kids at heart, a highlight of WOC is seeing and kicking the tyres of the big toys.

John Deere's new five-model G series of small skid steers and loaders boast more power and fuel capacity along with an upgraded cab. Plus, the vertical lift models feature lift heights of more than 3m while the radial models boast a 20% increase in breakout force. The radial lift option on the 312GR and 316GR features an exclusive boom lockout system for safety that can be activated from the cab.

Bobcat offered the new 55kW S595 skid-steer loader with a 998kg rated operating capacity. The vertical lift-path S595 is able to lift loads higher, making it easier to clear high sided trucks and hoppers. The S595 also features two speed travel, with a top speed of 18km/h. The push button

feature allows operators to choose between low and high travel speeds to match the jobsite conditions and tasks.

At Caterpillar, the 307E2 mini hydraulic excavator for the 7- to 8-ton weight class was on display. The 307E2 is powered by a 37.7kW Tier 4 Final/EU Stage IIIB engine, and features Cat's high definition hydraulic load sensing and flow sharing system. Other features include standard secondary auxiliary lines, a rear-view camera, and a Compass monitor that provides greater control over the excavator's operations.

Some pieces of equipment were present in name only. They included Gehl's 650 and 750 articulated loaders, which feature 49kW and 55kW engines, respectively; proportional auxiliary hydraulics with case drain and circuit pressure dump; and high-flow auxiliary hydraulics. The models will be marketed in North America under the Mustang brand as the 608 and 708.

With the Las Vegas Convention Center now empty, the countdown is already underway for WOC 2017, which will take place 17-20 January.



# ***CLEARING THE WAY AHEAD***


***Volvo CE is making extensive modifications to a fleet of excavators for a California-based demolition company.***

By Julian Gonzalez

Photographs by Frank Rogozienski







In the US the city of Sunnyvale, California, is the base for high-tech giants such as Apple, Yahoo, Google and Microsoft. Located 64km south of San Francisco, Sunnyvale's ambition to attract more similar high-tech businesses is unwavering. To make room for further growth, Ferma Corporation, a national leader in the demolition industry, is using its own advanced machinery, including a fleet of Volvo EC350E excavators, to help clear the way for the city's future.

In 1963, four brothers and a partner started Ferma as a site-clearing business. Over the years, it evolved into a pioneering engineering and demolition company that currently demolishes everything from high-rise structures to small business buildings, including one currently being demolished by two Volvo EC350E machines on the future site of a Google parking lot.

"Our specialty is high-reach excavators," said Fermec president Marc Ferrari. "Right now, in North America, we have the highest-reaching demolition machine, just shy of 61m. We currently have seven high-reach machines and some of those are modified for super depth. We also have a machine which currently extends to 33.53m below water with a variety of tools to handle a wide scope of underwater work."

Ferma is focused on staying ahead of the competition using the latest technology and machinery and recently switched patronage to Volvo CE. Its EC350E carries a D13 Tier 4 Final engine, a new electro hydraulic control system and ECO mode that can deliver up to a claimed 9% greater fuel efficiency.





"We had heard outlandish claims from other brands, but this was actually true. They're running on about 30.3litres/h and because we run mostly tools, we have them running at higher engine speed for longer than most other applications," said Ferrari. "We're always at the high end, or maxed, based on the type of work we do and the tools we use. Because we're doing demolition, there's always activity, so we achieve more than 90% working utilization while the engine is running versus the industry standard of around 60-75%. These machines, when they're on, they're working."

The first of 20 Volvo EC350Es arrived in August 2015 to join an EC480E high-reach excavator. Volvo CE dealer Dan McCausland admits it was not easy persuading the demolition innovator that FERMA's future was with Volvo CE.

"In the United States, Volvo CE has only been marketing excavators since around 2000," said McCausland. "The machines have come a long way over the last few years with Tier 4 Final engine technology and their ability to run multiple attachments, such as a concrete processor, a shear, a hydraulic breaker and a bucket and thumb. Now, the operator can program all of the attachment hydraulic pressures and different flow settings from the monitor in the cab."

Ferrari has used his innovations and his Volvo fleet to recycle an average of 98.5% of the material demolished by Ferma. "Our equipment might look ordinary, but they have special tweaks and modifications made for our needs," said Ferrari. "We started on-site recycling back in 1983 and have played a big role in crusher technology and how we use it in the demolition sector. We also run mobile shredders, wood chippers and material sorters. With all of those technologies, we've basically pushed the limits in mechanical recycling to benefit the environment and our company goals."

Ferma's EC350E has two cameras and heavy duty side bumpers and customised controls. "We have digital frequency wired-in radios in the machines," said Ferrari. "We took out the factory stereos put in the radios and ran them through the factory speakers. With wired in toggle controls for the microphones and push-to-talk, the operator never has to take his hands off the excavator controls to talk to personnel around him. It's a very nice safety feature."

California's strict restrictions on weight, forced Ferma to make slight modifications to the EC350E. "The threshold for us is 41.91t so anything under that is legal," said Ferrari. "When we tried out the Volvo EC380E, without all of our customization, it was 41.73t. With all of our modifications these machines currently weigh around 40.83t."





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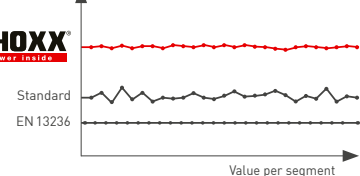
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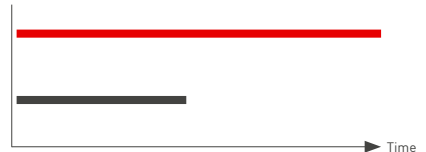
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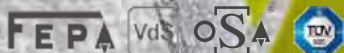
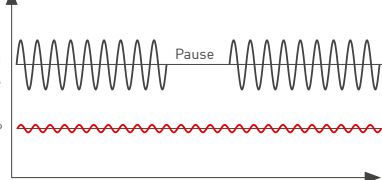


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## Chicago Pneumatic's launches new compactor attachments

Chicago Pneumatic has launched its RC five-model range of rig-mounted hydraulic compactor attachments for use on carriers weighing from 1t to 40t.

All models within the RC range are designed for instant use, with no special installation required and come equipped with connection hoses and integrated flow rate and pressure controls. A range of additional options is also available, including a continuous rotation device for easy positioning and backfill blades for smoother levelling.



## New GDT Razer from GENESIS ATTACHMENTS

Genesis Attachments has added the GDT Razer demolition tool for excavators and high-reach applications.

The GDT 190 and GDT 290 are optimized to fit on standard 200 and 300 class excavators, as well as most high-reach demolition machines. A short, flat top head with bolt-on bracket makes installation simple, shortens the centre of gravity and makes it easier to switch the tool between excavators.

The GDT Razer processes a variety of materials with its customised crushing tooth configurations. The number of crushing teeth and their locations can be arranged to meet project needs, and the bolt-on teeth are easy to install and can be interchanged and reversed front to back for longer life and lower cost of operation and ownership.

Metal cutting blades in the back of the jaw are four-way indexable and feature an apex design that draws material deeper into the jaw for more efficient cutting. The GDT Razer also features a pass through lower jaw to prevent material build-up and jamming, as well as a reverse mounted cylinder for protection from damaging debris.



## NEW HATZ ENGINE at Bauma

The German engine manufacturer Motorenfabrik Hatz will use Bauma for the world premiere of the H family water-cooled three-cylinder engines on its stands 548 in hall A4 and on stand 9 in the courtyard 4 5A. The German manufacturer will also introduce generator sets and hydraulic power packs.

For an optimum combustion process, best operating characteristics and reduced emissions the new 1.5litre three-cylinder 3H50 H series are equipped with the Bosch common rail technology with a maximum injection pressure 1800bar. Thanks to the turbo charger and the intercooler the engines have a maximum torque of 185Nm and maximum power of 42kW.

The Hatz 3H50TI does not need any exhaust after treatment and reaches the standards EU Stage IIIA and EPA Tier 4 interim in the power range 19kW to 37kW.

The Hatz 3H50TIC is for the US market, Canada and some Asian countries. In order to comply with the exhaust emission standards EPA Tier 4 final a combination of external exhaust gas recirculation and diesel oxidation catalyst guarantees the necessary reduction of exhaust emissions. "The weight and consumption values are lower than those of any other engine of this class. This could be achieved, among others, thanks to the intelligent Hatz Advanced Combustion Strategy

with its combustion chamber geometry, Bosch injection technology, minimised friction and a charge air pressure of 1.7bar," said Hatz managing director research and development Christian Hatz.

At Bauma Hatz will present the EU stage V solutions 3H50TICD and 4H50TICD. These will be launched well before the introduction of the new exhaust emission legislation in 2019," said Hatz commercial managing director Wolfram Hatz. "Field tests with customers of the H series who will use the new Stage V engines from 2019, have already been carried out."

Hatz will also present the HEA 27TDCW5 generating set producing 27kVA at 50Hz and 400V powered by the Hatz 4H50TI engine, which complies with the current standard EU Stage IIIA, emission levels. The set is available as emergency standby and continuous power supply versions and is suitable for the rental market.

In addition Hatz will show the 25kW HAA 25HDCW hydraulic power pack driven by the Hatz 4H50TIC, EU Stage IIIB engine. The modular designed is piped and includes all necessary hydraulic components such as a 120litre tank, filters, oil cooler with fan, manifold valve and an alternative gear pump or axial piston pump. Different hydraulic circuits and an electric priority switch are available.



## NEW HL960 wheeled loader from Hyundai

Hyundai has added the new HL960 wheeled loader with an operating weight of 18.8t. It is powered by a stage IV Cummins QSB.7 168kW engine, which makes the HL960 up to 10% more fuel-efficient in truck-loading and able to achieve up to 5% more productivity

in comparison to its 9A series predecessor, the company claims. The new wheel loader has a bucket capacity of 3.1m<sup>3</sup> to 3.4m<sup>3</sup> a digging force of 163.5kN and dump height of 3.37m. The HL960 is also available as an XT version with a larger dumping height.



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<p><b>W250P</b></p>  <p>230V 1-phase</p>	<p><b>W70P</b></p>  <p>230V 1-phase 120V 1-phase</p>	<p><b>A1000/A2000</b></p>  <p>230V 1-phase</p>	<p><b>A600/A1200</b></p>  <p>120V 1-phase</p>	<p><b>A600U/A4000</b></p>  <p>230V 1-phase 380-400V 3-phase</p>

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## THE HANDS-ON EXPERIENCE

*Handheld tools are often the best choices for working those little miracles on site. They live up to their handy reputation through portability, accessibility, and productivity, and thanks to improved ergonomic features they are comfortable to use. PDi's Jim Parsons takes a look at some of the latest handheld tools for concrete construction and demolition.*

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### **HITACHI** DH40MEY rotary hammer debuts in March

Hitachi has combined a brushless motor, aluminium construction, and vibration protection technologies to create the DH40MEY 40mm SDS MAX rotary hammer. The brushless motor significantly extends the life of the tool, eliminating the risk of premature burnout, layer shorts, and commutator wear. The motor unit's durability is enhanced by an aluminium die cast body that incorporates a plastic internal stator holder, achieving internal double insulation characteristics. With its user vibration protection, Hitachi is one of the few manufacturers that offer an internal counterweight and shock absorbing handles. Less vibration on the tool means less vibration on the internal components, which greatly improves the tool's life.

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



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## AG50-10TG angle grinder from **BOSCH**

The AG50-10TG angle grinder features a new tuck pointing guard with tool less installation, making it quick and easy to install and remove. The variable depth adjustment allows the guard to collect dust throughout the duration of a cut. A large viewing window makes it easy to see the line of cut, while the dust extraction port ensures a cleaner work when used with a vacuum.

At 2.3kg, the AG50-10TG features a 10A, 11,500 revs/min motor with direct cooling and air vents, reducing blockage and overheating. Improved carbon brushes offer more than double the lifetime of previous brushes. The gear housing rotates 90° for better grip options, and control and two position vibration control handle reduces vibration.

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



## A new handle for **BLASTRAC** handheld grinders

The Blastrac 05-73900 loop handle has been designed to fit the Blastrac 05-BL233 178mm handheld grinder. The handle allows grinding for concrete preparation along walls, around protrusions, and hard-to-access areas and limits fatigue by allowing multiple hand positions.

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



## **MAKITA** presents world's first 4-stroke power cutter

Makita's 356mm EK7651H is claimed to be the world's first 4-stroke power cutter. The 13.8kg cutter has a 3kW engine, a no-load speed of 9,350 revs/min and fuel consumption of 1.7litres/h. An automatic engine decompression valve reduces pull start force by 40% for easier starts.

In addition, the pressure-compensating carburettor with vented choke plate automatically adjusts to deliver the proper amount of fuel. The EK7651H has a five-stage foam-paper-nylon filtration system with advance direction air flow to provide cleaner air to the engine.

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







## Also from MAKITA, new 18-volt brushless 3-speed impact wrench

The new cordless XWT02M combines the extended run time of brushless motor technology with the new 18V LXT Lithium-Ion 4Ah battery. Maximum torque ranges from 80Nm to 285Nm. The XWT02M has a protective seal inside the tool for improved water resistance.

The XWT02M is powered by Makita's BL brushless motor, which is electronically controlled to optimize battery energy use for up to 50% longer run time per charge than similar non-brushless tools. Electronic controls use battery energy to match torque and speed to the changing demands of the application. As there are no carbon brushes, the BL brushless motor runs cooler and more efficiently.

An added benefit of Makita brushless motor technology is increased motor efficiency in a more compact size. The XWT02M is 146mm long, and weighs 1.78kg. Similar to all Makita impact drivers and impact wrenches, the anvil impact mechanism in the XWT02M uses the highest quality steel and a unique heat hardening process.

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



## Two core drills from CS UNITEC

The handheld EHD 2000 S diamond core drill has a two-speed gearbox and 13.6A motor for drilling holes up to 152mm in diameter in brick, block work, soft concrete and other abrasive materials. Features include soft start, temperature control, and over current cut-off. A safety slip clutch prevents jamming and allows for handheld operation.

When coupled with an industrial HEPA dust collection vacuum, such as CS Unitec's CS 1445 H, the EHD 2000 S reduces airborne dust to provide a cleaner work environment. The EHD 2000 S is supplied with an M18 male spindle, a 15.875mm x 11 UNC adapter, and a carrying case. Optional diamond core bits are available.

CS Unitec also offers the ETN 162/3 PSV diamond core drill for wet drilling holes up to 162mm diameter in concrete, reinforced concrete, natural stone and asphalt; and dry drilling up to 203mm in brick and block. Supplied with the BST 162 V stand and a vacuum pump, the drill is fully adjustable up to 45°. A quick-change mount allows users to switch from stand mounted to handheld operation quickly and easily. Electronic torque limitation and speed control on the motor guarantee constant speed even under load. The safety slip clutch prevents jamming and protects the operator during handheld operation. The motor includes a GFCI for operator safety during wet drilling applications.

An integrated water swivel is in the spindle for wet drilling. For concrete dust extraction while dry drilling, the ETN 162/3 PSV can be connected to a vacuum with a standard hose connection. The vacuum port is also built into the drill spindle, allowing the operator to capture the dust from inside the core bit. Optional accessories include a portable water tank, water collection ring kit and Unicore diamond core bits.

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





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## New handheld gas saws from **HILTI**

Hilti's next generation DSH 700-X and DSH 900-X handheld saws incorporate easy start technology that automatically sets the correct choke for more first pull starts.

The 70cc DSH 700-X is available in 300mm and 350mm models, while the 90cc DSH 900-X comes in 350mm and 450mm models. Both feature the cyclone air filtration system that removes most of the dust and debris from the engine air intake flow using centrifugal force. This process is perfected by suctioning the cleanest air from the centre of the cyclone, which is then sent to the filter, increasing filter life.

On site maintenance for the new saws is made simple, thanks to an easy to access and change starter rope, air filter housing and blade guard. Common maintenance parts such as air filters, starter ropes, spark plug, and fuel filter are easy to use.

Combined with Hilti's new line of diamond cutting discs, Equidist SPX, SP and P, the DSH 700-X and DSH 900-X, the DSH 700-X and DSH 900-X excel in cutting all types of concrete, masonry and asphalt.

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



## ICS's 695XL gas powered saw

Based on the 695 saw platform, the 4.8kW 695XL is the highest power ICS gas saw for general construction, utility and concrete contractors. Weighing 9.5kg the 94cc saw delivers 5.7Nm of torque at 7,200 revs/min. Features include an engine with higher energy ignition system and long-lasting components, such as a new silencer, carburettor, piston and cylinder. The 94cc saw is available with 300mm to 400mm guide bars, and the entire line of Max, ProForce, and PowerGrit diamond chains.

[icsdiamondtools.com](http://icsdiamondtools.com)



## ICS's 680ES-PG gas-powered utility chain saw

Also from ICS is the 680ES-PG gas-powered utility chain saw PowerGrit chain for cutting utility pipe. The 3.7kW saw delivers 4.1Nm of torque at 6,500 revs/min for cutting up to 254mm deep into ductile iron, cast iron, PVC, HDPE, and Insituform lining. Weighing 9.5kg, the saw is also designed to run the full line of Max series chains. With a quick switch of guide bar, chain and drive sprocket the saw can be in masonry, stone and reinforced concrete.

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## Atlas Copco launches DrillAir X28 compressor

Atlas Copco is expanding its DrillAir range with a new compressor for the geothermal drilling industry. The DrillAirX28 provides improved drilling speed in addition to a new engine, enabling users to drill two 200m holes in a single day at 30bar pressure. The DrillAir X28 comes with dynamic flow boost as standard, providing additional air when the compressor is working at lower pressures. This results in users being provided with 30m<sup>3</sup>/min at 25bar, 31.6m<sup>3</sup>/min at 21bar and a maximum flow of 33m<sup>3</sup>/min at 16 bar, which leads to faster drilling completion rates.



## Prodem breakers in the UK

The Prodem PRB700 hydraulic breaker and weighing 7t, is the largest of its type available on the UK attachment rental market. The first one in the UK is on hire from sole UK and Ireland importer BPH Attachments and fitted to a Komatsu PC800 hydraulic excavator on a site in the north east of England.

The Prodem PRB700, which has the patented pro-speed dual control and anti-blank firing systems, rock claws and a single high-pressure accumulator, is available for nationwide hire or sale.



## Case extends D Series crawler excavator range

Case Construction Equipment will show its full line of equipment and services for the construction industry at Bauma. These will include an extension to its new generation D Series crawler excavators with the introduction of five new models at Bauma. The CX130D, CX160D and CX180D fit in the medium range, while the CX490D and CX500D are in the 50t heavy-duty class. All the new models feature Case's Tier 4 Final (Euro IV) maintenance-free technology without diesel particulate filter.



## ROTAR EXPANDS PRODUCTION CAPACITY

Rotar the Dutch manufacturer of hydraulic attachments for the demolition and recycling industry is expanding its production capacity with an additional 1,300m<sup>2</sup> factory hall.

"We want to meet the increasing demand for our products and for that reason we need to grow together with the success of our customers," said Rotar technical director Roel Barelds. "For that reason, we are expanding our production plant with an additional 1300m<sup>2</sup> factory hall.

As a result of expanding the factory and moving the rough machining procedures to the new hall, Rotar has created more floor space in the existing production facility. Rotar plans on using this space for manufacturing more product ranges in larger series. The company has



also invested in new machine tools, heavy forklifts and a new spray booth.

The new factory hall will be completed for use at the start of April. This is another milestone for the company after opening their North American division in November 2015.

"We are extremely proud on the thrust our growing group of customers have in our products and our company. Their success with our attachments is the ultimate goal we strive for. Our dedicated group of dealers are the vital link and share the success," said Rotar sales director Louis Broekhuizen. "We work hard and will go that extra mile to keep growing in the coming years and do this together with our customers, dealers and our enthusiastic team of industry professionals."



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# Keestrack at Bauma

Keestrack will present at Bauma a cross-section of its mobile crushing and screening units for processing, recycling and aggregate production on stand 817/2 in the open area north.

With transport weights of less than 30t jaw crusher Keestrack B2 with a jaw width of 1m and the crusher unit Keestrack R4 with add-on screener and oversize material recycler will be on display. These will accompany the Keestrack R8 top crusher unit, a high production unit capable of 450t/h.

The standard active double-deck pre-screening with crusher bypass optimises the crushing and minimises wear and tear. The machine with a double-deck add-on screening unit and oversize grain recirculating conveyor will also be present. The optional equipment permits the production of three final grains via conventional removable screening media. Large-scale screening surfaces and stockpile conveyors help avoid bottlenecks of bolted-on screeners that are too small. Keestrack is offering the 70t R8 with a hinged four-axle dolly for transporting the compact machine by trailer.

Keestrack will also announce its new track-mounted cone crusher H4, which has a transport weight of 35t to 50t, as the first of its kind. At the heart of the model, designed for high-value secondary or tertiary production in the 120t/h to 200t/h performance range, is the proven cone crushing technology of its supply partner. According to Keestrack, a pioneering factor has been the advanced solutions in crusher control and moni-

toring systems, directly impacting output capacity and product quality.

As the successor to the Galleon series, the Keestrack H4 has a new frame, enabling the incorporation of pre and post-screening units and the use of innovative drive technologies. The Keestrack H4 is claimed to be the world's first mobile cone crusher with a three-deck post-screening module with an oversize material recycler for the production of three high-grade end products in one pass. Keestrack is offering a choice of three drive combinations; direct diesel drive of the crusher with electrical or electro-hydraulic peripherals or the hybrid "plug-in" version with similar electrical crusher drive via on-board diesel generator or mains power.

The new Keestrack C8/K8 track-mounted large-scale screening unit with expansion-shaft screening

technology will also feature at Bauma. The adapted BIVITEC technology from Austrian development partner Binder guarantees in combination with the large screening surfaces of the double screening unit and a very broad area of application in the recycling of various waste materials, the processing of materials difficult to screen that have high moisture levels, or in the production of large volumes of standard mineral products. By providing different versions of the double screening unit it is possible to process, for example minimum grain sizes of <2mm. The transport weight of the Keestrack K8 is 45.4t including the 12m<sup>3</sup> feed hopper, overband magnet and two side belts.

The Keestrack range of track-mounted heavy-duty screening machines will be represented by the Keestrack K4. With a 4.2m x 1.5m double screen box, the compact machine offers one of the largest screening surfaces on the 30t class and processes up to 200t/h. The K4 can be adapted to individual customer requirements, making it an economical solution for the sorting and grading of recycling materials or the production of defined grain sizes at building sites or in extraction operations.



## DSB INNOCRUSH LAUNCH NEW MACHINE AT BAUMA 2016

The Austrian manufacturer of mobile crushing- and screening machines will present a new innocrush machine at the Bauma 2016.

dsb innocrush has established itself in the past 10 years as one of the leading manufacturers of impact- and jaw crushers. A team of specialists at dsb innocrush is now presenting a new innocrush machine

with a revised design that will be launched at Bauma in April. In the optics they went for distinctiveness. Therefore, a hired industrial designer was instructed with a design study in order to give the machine a new look. The overall message was simple and clear. The design should not hide, but usefully supplement and summarize clear functional units of design technology.

"We listen carefully when customers report their operations and thereby provide inputs and suggestions on what would be necessary, useful or helpful to the existing valuable features. It makes no sense to design a machine on the drawing board; it's about to build powerful crushers, which are easy to use and meet exact the customer's requirements", says Dieter Durstmüller, general manager of dsb Maschinenbau GmbH in Linz, Austria. "Even with the current development, our focus was clear: functional design, highest output", adds Durstmüller.



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# Recycling to high standards

Alfred Neuberger owns a company specialising in a variety of sectors such as demolition, recycling, landfill, earthworks and slope construction. The company has

22 employees and a large fleet of construction machinery. Since the 1960s the family has owned a large gravel pit in Ehrwald and for recycling of construction waste

and RAP has a landfill with a volume of 400,000m<sup>3</sup>. “Since 2012 we have used a Rockster scalping screen RSS49, mainly in our gravel pit,” said Neuberger. “Until last summer we regularly rented crushing plants from Haberl Construction Machinery, but we decided to buy our own R900 impact crusher. Main fields of operation for the mobile Rockster crusher is recycling of demolition waste and concrete to 0-63mm for base material in road construction or backfills in building construction, as well as recycling of RAP or natural stone processing.”

“As we had been renting Rockster crushers for many years we were convinced of the performance of the R900 impactor. The new Volvo engine with emissions standard is running even more smoothly and the fuel consumption decreased by about 15% compared to the older machine. Especially the consumption/t is really impressive.”

The R900's latest project has been on a tunnel portal scheme recycling the old asphalt wearing and binder course for road construction. About 3km of road has been recycled at about 100t/h to a grain size from 0 to 16mm.



## CASE SATISFIES IN THE ARTIC

Located about 1800 km north of Oslo, Tromsø is the largest urban area in northern Norway and the second largest of the Arctic Circle. Here the environment can be extremely challenging, with heavy snow during the winter, long distances between inhabited areas and six months of night, alternating with six months of daylight.

Even in this harsh environment, customers and operators of CASE construction equipment are delighted with the performance of the CX C-Series mid-size crawler excavators supplied by dealer Dagenborg Maskin.

The company has been delivering the full line of CASE equipment to the north Norwegian market since 1981. Currently they account for 20% market share of CASE units in their areas of the three northernmost counties of Nordland, Troms and Finnmark.

“The keys to our success are flexibility and pas-

sion,” said Dagenborg Maskin managing director Håkon Dagenborg. “We are a small business and we all work very hard to satisfy our customers’ needs under any condition. It is also extremely motivating to have the CASE team very close to us whenever we need them.

“Quite often we are asked to work under very critical conditions. During winter, we can easily have up to 2m of snow in our region. Transport can be difficult and distances are a problem too, as Norway is a very long country. We cope with these obstacles with rapid and reliable transport and by providing fast after-sales service to our customers, supported by the efficient parts delivery from CASE.”

CASE CX C-Series crawler excavators are ideal for urban construction sites. Their hydraulic systems and non-DPF Tier 4 Final engine technology result in optimised performance, exceptional fuel economy,

fewer emissions and low operating costs.

The auto-idle system saves fuel and reduces noise levels by automatically reducing engine speed after 5s of machine inactivity. If this low idle condition continues for more than 3min, the idle shut down function automatically stops the engine.

Available in two models, the CX75C SR and CX80C MSR, offer controllability and lifting performance which allows operators to boost productivity in a variety of applications.

The midi crawler excavators have the same cab as larger CASE excavators. With a large glazed area, the cab provides excellent all round visibility. The cab of the C-Series midis meets the ROPS and FOPS safety standards.

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# GET THE **RED** CRUSH!



# New hire company in Scotland

Kieran O'Kane, formerly of Blue Machinery Scotland. The company offers hire and contracting services for materials processing plant and equipment for the quarrying, recycling, demolition and allied industries. The plant fleet includes Powerscreen and Doppstadt mobile crushers, screeners and shredders.

AMP already has a number of machines out on sites. Two Powerscreen PT 400 jaw crushers were the first machines purchased, one being the new pre-screen model. Both mobile crushing plants went straight to work, one on a contract crushing job and the other on various hires with demolition contractors. The crushers were followed by a Powerscreen Chieftain 2100X mobile screening plant, which is on a long-term hire screening and stockpiling sand and gravel. The environmental side of the business is also up and running, with a Doppstadt SM 620 trommel out on hire processing green waste and biomass. AMP's

customer was pleased with the machine and service AMP received that a further hire contract for two more trommels.

All the machines in AMP's fleet have been purchased from Blue Machinery Scotland, with a plan to purchase further machines, including a slow and high-speed shredder. The objective is to have a 25 strong fleet of crushers, screeners, shredders and trommels to service quarrying and recycling customers throughout Scotland.

AMP was established in recognition of opportunities within the rental sector to provide high quality mobile equipment, service and expertise that customers can rely on. AMP's strategic advantage is centred on Kieran O'Kane's reputation and extensive experience, along with the contacts and strong relationships built up over 30 years working in the industry. With an engineering background and, prior to Blue Machinery Scotland, Mr O'Kane worked all over the world with Powerscreen.

## TUNNELLING without blasting

Contractor Hedins Hjulgrävmaskiner, based in Jokkmokk in northern Sweden, has been excavating for Westfjords Reningsverk in Asker, Norway to create space for their new water treatment plant. The new facility is being built underground and the tunnelling project included excavation of around 2,000m<sup>3</sup> of rock. Because of ongoing processes in the existing plant, explosives could not be used. All excavation was carried out with hydraulic breakers and a drum cutter from Atlas Copco.

### Special carrier

Tunnelling and mining specialist Hedins decided to equip a Liebherr 924 wheeled excavator with special accessories so it could function as a carrier for three different breakers and a drum cutter. A special tunnelling boom made it possible for the carrier to work in low tunnels, and a rising cab gave the operator a wide view of the work area. The undercarriage had outriggers in each corner to stabilize the unit and also a dozer blade for levelling and cleaning the surface.

The use of a water spraying system and a compressor were essential, allowing Hedins to keep dust away from the breaker. This was fixed by equipping the carrier with a hydraulic hose reel. The hose was connected to a pipeline, and the water went from the reel, through the pipe system, to an adapter plate with spraying nozzles. Compressed air was needed to boost water spraying and keep the dust away from the breaker's percussion mechanism. This was solved by equipping an Atlas Copco piston compressor with a hydraulic engine and mounting it on the carrier.

### Different breakers for different task

With the company's long experience from working on tunnelling applications, Hedins knew that different hammers would be needed for different tasks. They used a quick coupler to switch attachments and ended up using three different Atlas Copco breakers as well as a drum cutter.

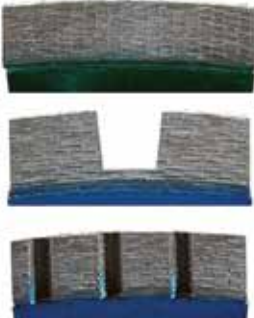
For the lower part of the tunnel head, they used the heavier HB 2000 DP breaker with a modified breaker box to give the breaker extra protection. They then used the lighter MB 1500 DP breaker for the tunnel walls and the smaller SB 552 breaker for roof scaling. A drum cutter with an extension jib was then used for after treatment and tunnel profiling.


The drum cutter is an ideal choice for stone or concrete wall applications, surface profiling and trenching, for excavation of frozen soil, soft rock mining in quarries and for demolition and dredging. It complements Atlas Copco's hydraulic breakers and offers additional solutions for soft rock applications of up to a strength of 100MPa. Drum cutters are available with service weights from 200kg to 2.9t and are suitable for carriers weighing up to 50t. Without additional installation, the products can even be used under water, at depths of up to 30m. Because of the small grain sizes, no further crushing is needed in order to use the milled stone or concrete as backfill.




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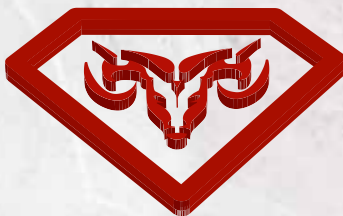
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LtoR. Mark Snoad Central Territory Manager, Lloyd Williams managing Director, Seb Lengyal. Western Territory Manager, Stuart Smith. QLD Territory Manager.



# MAKING TRAXX

*in a competitive market*

***Lloyd Williams needs little introduction when covering Australia's construction and demolition scene.***



With more than four decades at the heart of the diamond tool industry, the chairman and chief executive of Traxx has witnessed a share of its ups and downs. But in bullish mood at last year's CSDAA conference in Melbourne, Williams outlined his opinions to Chris Webb about the country's remarkable recovery from a seemingly irreversible onslaught of offshore competition, his hopes for a vibrant concrete sawing and cutting community, and a highly trained, career-oriented workforce.

The concrete cutting and sawing industry in Australia is variously reported to be worth in the region of \$560M (€360M) plus and upwards. One man who has, perhaps, a better finger on the pulse than many is Lloyd Williams, a former president of CSDAA. He remains at its epicentre, a position he gained in the late 1980s and a respected architect of the trade association that has seen the industry grow from an artisanal occupation to one that has rapidly reached a status of skilled maturation.

Lloyd, a former board member of Husqvarna and its vice president of sales and marketing responsible for Asia Pacific, has a unique understanding of the market in the region, and the part Australia has to play in it after the turmoil of recent years. "There are approximately 750 true contractors in Australia with sales from \$500,000 (€322,000) to several million dollars. So the figure of \$560M (€360M) is perhaps on the light side," said Williams.

He also has a clear view on how his domestic market will play out. Big companies, such as Husqvarna remain his biggest competitors in Australia, but big companies come with inevitable inertia, he believes, and smaller companies, with sufficient financial clout, can respond quicker to market change. Which is one position in which he sees his own company Traxx.

Traxx supplies tools and equipment sourced from around the world, but also manufactures from its base in Australia, where Lloyd Williams runs a tight ship in the face of fierce competition from neighbouring Asia. The region's building industry is buoyant, the company's products are sought after and the business is profitable.

Williams is no stranger to media interest, or to accolades such as a pioneer to the industry throughout the Asia Pacific. He has been described as a senior authority in the region, who has contributed significantly to the industry's dramatic growth over recent years; a passionate person with a penchant for innovation and excellence. That's something to live up to.

Traxx's Port Melbourne premises seem relatively modest, on first approach. But enter this emporium of construction merchandise, and you learn that behind this business is a focus on supplying a specialized in-



Traxx MD Lloyd Williams.

dusty with what it wants, when it wants it. The term one-stop-shop is grossly overused, but nonetheless appropriate here.

But Williams knows that, in terms of walk-in retail, in some aspects of this business at least, the writing may be on the wall. "I think that most sales, perhaps 80%, will be online, within about five years," said Williams, referring to DIY and trade diamond tool and equipment sales. "But professional contractors will always want to deal with a professional supplier to a greater degree."

How does Williams think this will affect the culture of the business and will buyers want a hands-on feel for what they are buying. "Of course this has impacted the culture of our businesses, already. A good example is that most tool and equipment suppliers do not spend money on training new people into the industry, currently, as a result of significantly reduced margins," said Williams. All of that is about to change, thanks to recent CSDAA initiatives that are set to reboot the industry.

Williams returns to the Asian Influence on the Australia market, and how it has adversely affected home-grown, domestic businesses from the late 1980s. He was asked where, specifically, he thought the main threat originated and if he thought the price freefall had bottomed out. "The original threat came from Japan in the 1980s, followed by South Korea and now China and Thailand," said Williams.



"Chinese manufacturers and brokers started offering cheap prices direct to end-users, and still do, but as any good manufacturer knows, there is much more to a good diamond tool, or any piece of equipment than price. Many users have gone back to relying on local trustworthy suppliers, even if the product itself is imported. Good importers know how to control the quality and performance, and price to a degree. As a result, yes, we feel the price war has bottomed out now."

Last year's Melbourne conference highlighted a key issue of training and certification of operatives. A common perception was that the industry was finding it difficult to attract sufficiently qualified people, and instead relied to some extent on passive labour.

"It is essential that we all work hard to make the industry more attractive to younger people," said Williams. "Let's face it, it will probably never be regarded as a sexy industry, but it can look far better than it did. Better training is of course one thing that helps greatly. Many contractors are spending money on looking far more professional and are prepared to invest in good equipment to raise theirs and the industries profile."

As free-trade agreements were reached with major Asian economies, it was interesting to learn how Williams viewed the impact of these on Australia's recovering businesses and if there would be a more aggressive penetration of the Australian market by Asian manufacturers. "There are only two domestic diamond tool manufacturers left in Australia along with a few that assemble core bits and small parts," said Williams. "So,



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the damage has been done. We have come to realise that we must adapt or perish. Unlike the European Union and the US, we work with offshore manufacturers to help them where possible. Hence it is unlikely that a free trade agreement can impact the domestic diamond tool business negatively. From a positive perspective, if our country grows as a result of accessing Chinese markets that we cannot currently access, then there is a spin off to everyone.”

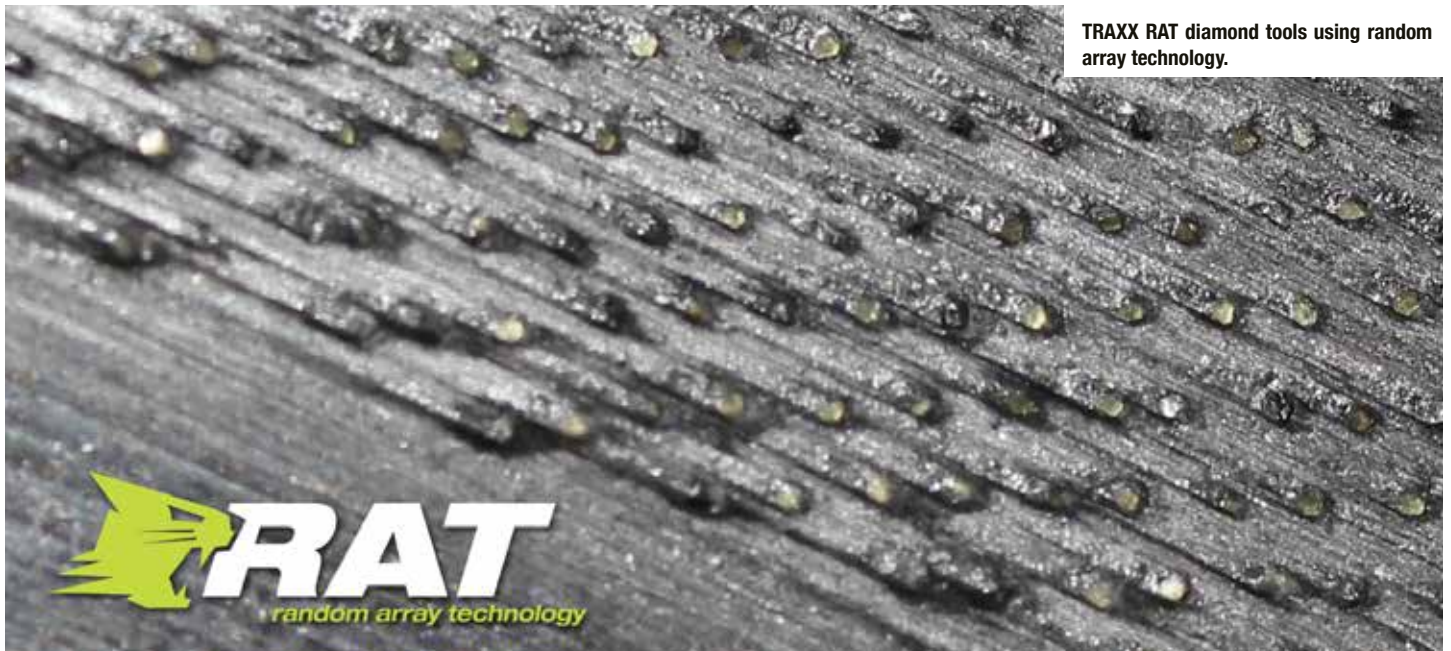
Overall, Williams said that the industry is very safe in its present state, especially since there is no obvious successor to diamonds on the horizon, at least for 10-20

years. He added that concrete consumption continues to grow and wherever concrete is consumed sawing, drilling, grinding and breaking is needed. There are no new techniques on the horizon to replace diamond tools. There are constant increases in machine improvements, but they invariably consume diamond tools. But he said that we must always be cautious; never complacent. Attrition will happen in the market. Good companies will prosper and the weak will not.

Home grown manufacturers and suppliers once enjoyed 50% to 60% saturation of the Australian market, but slumped to 20% as a result of imports from Asia.

That has had a downside, over the last two decades. “If you don’t make the margins, you don’t have so much of an opportunity to change the business for good. But all that is changing,” said Willims. “This has been down to the industry’s becoming more specialized, with a sharper focus, offering top quality products in GPR, to name but one.”

Undoubtedly, training and operative certification is seen as the industry’s route, not just to a sustainable, but growing wealth creation. If last year’s CSDAA presentations are anything to go by, there is no shortage of creative effort and determination in that direction.



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## Husqvarna launches **REDI LOCK**

Husqvarna is launching Redi Lock G 1400, a new range of metal-bonded diamond tools for the Redi Lock system for surface preparation. The G 1400 has been developed for very hard concrete surfaces. The bright orange colour highlights that the metal bond is softer compared with the previous series for hard concrete, making it the softest range of the Redi Lock system.

The G 1400 series has a high removal rate on hard concrete, up to two times more than the second softest series G 1110, which will help increase productivity. The shape, together with the big grit sizes, allows a larger removal of the material. The diamond segment height is 13mm and the optimum diamond selection enables the highest performance on hard concrete.

The new range will offer dealers and professionals one of the best solutions for hard concrete. The range will be supplied with a brand new package design that allows storage of segments when not in use.

Redi Lock, is a hassle-free system for changing diamond tools. With this system, there is no need for multiple sets of diamond holder discs, or for impractical and time consuming screw-on-diamond systems. Redi Lock can be used on all Husqvarna surface preparation machines and tool adapters are available for most other machines on the market.



## ATLAS COPCO ADDS TO QAS GENERATOR RANGE

Atlas Copco has extended the range of its QAS series of generators with the addition of the QAS 630. By incorporating the compact frame of the QAS 500, the QAS 630 can generate 20% more power without needing a larger footprint. The expanded QAS generator series provides complete, compact

and fuel-efficient solutions from 14kVA to 630kVA for a wide range of applications. The standard fuel tank has a capacity of over 900litres and can provide power for a full shift at full load. An optional larger fuel tank can extend the running time up to 24h, depending on load requirements.



## SIMA's flexible manufacturing

The Spanish Company Sociedad Industrial de Maquinaria Andaluza has been manufacturing light construction machinery for the last 46 years, focusing on cutting and folding machines under the brand SIMA.

It started in 1970, when founder Antonio García Marina invented and built an automatic tile cutting machine to meet market needs. SIMA has continued to adapt to market requirements and has since experienced considerable growth and evolution over the years. In the early 1990s SIMA expanded internationally, first into neighbouring countries, then further afield, with a current foothold in 62 countries.

In concert SIMA has expanded its product line to in-

clude masonry cutting tables, pavement treatment equipment, rebar cutting and bending and diamond blades. These covers the majority of needs of the concrete sector.

SIMA also provides tailor-made solutions for customers' specific problems or requirements. For example the company has adapted its Trencher to cut two parallel lines 50 or 100mm wide.

The company has also adapted its bending machines to work at different speeds to bend different diameter rebar and designated double Speed DEL 32 and DEL 36.

This equipment and more will be on display at Bauma on stand 125 in Hall 1.





# AUSTRALIA TOOLS UP

***Australia's spring marked an appropriate time for the country's Concrete Sawing and Drilling Association's 2015 Convention, as did the venue, Melbourne, Victoria, where delegates met for their annual soiree at the Hilton South Wharf.***

Set in a stunning location, shouldered by the Yarra River, the event garnered a new optimism. With status-building training and accreditation taking off, the industry is reinventing itself. Chris Webb reports.

We have all been there. The annual convention. A time to meet with old colleagues and friends; a time to catch up on the latest technology on offer away from the sweat and grind of daily life at the coalface.

But the overwhelming impression of the CSDAA conference was one of an industry in upbeat mood, gaining strength from recent adversity, along with a determination to build confidence from a bedrock of training, accreditation, and professionalism. These are qualities that CSDAA believes will take the industry to the next level and attract a new breed of operatives.

Rallying his members in a packed auditorium, Jason Franken emerged as a president who has worked tirelessly to consolidate an agenda aimed at moving forward and completing a number of goals defined in CSDAA's business plan.

More than two years ago he set out his own ambitions for the organisation's training development programme. "They continue to reflect my personal views on a number of issues regarding the training, qualifica-

tions, membership and the industry perception of the CSDAA," said Franken. "Without the support from current and future members the training qualification will be unsustainable. I'm glad to say that we are on course to address this issue".

Back then, Franken foresaw changes in the industry on a number of fronts that would affect how members would do business, including Occupational Health and Safety regulations compliance, finance training, and managing cash flow. He advised members to be proactive rather than reactive.

His views have not changed. "Why bother with training? – you might well ask yourself, especially in these harsh economic times," said Franken. "Training is often the first victim of cutbacks in a business when in fact it should be the last. A well-trained team will improve productivity for your business. A well-trained team will understand how to do their job properly and safely.

"Training is not just about meeting minimum legal requirements. It helps to prevent injury, prevent damage to equipment and property, and increase efficiency. The right training also helps by increasing job knowledge, skills ability, competency and confidence, while decreasing risks".

Franken said that there is no silver bullet that will ensure the industry's success. He believes 2016 could be a tough year for contractors in his organization and its members, but will benefit from the initiatives set in

**Nexgen MD Dean Ringrow.**







**Jon Hart and Mark Snoad enjoy the show.**



**Tanya Hart, Gail Williams, Tania Bunnett and Di Eade.**

place by the CSDAA. Conversely, Australia's Enterprise Bargaining Agreement wage and working conditions could maintain a brake on faster development in spite of an otherwise bubble in construction as a whole.



"The EBA will certainly play a part in how the year progresses, financially, for members," said Franken. "Though 2015 was a relatively good year. The last two to three years have been characterized by competition based on the lowest cost. Subcontractors such as concrete drilling and sawing companies often feature low in the pecking order for payment. If a subcontractor goes bust, the main contractor has effectively got his work done for free. Ideally, we would like to see a situation where main contractors are responsible for subcontractors and due diligence is uppermost important. A lot of contractors in our business in Australia are now working on a 1% margin, whereas in 2010-13 it was 6-7%".

Franken sees little or no improvement in 2016, but wants to see the industry achieve its goal of moving towards a professional advocate. "Concrete sawing and drillin has traditionally been classified as a business employing unskilled labour. We need to change that. If you operate a forklift or scissor-lift, for example, you need to have a qualification of competency. We need to have [that same] credibility," said Franken.

Franken's message may be overly candid, but in Melbourne, members seem to get it. And, at least, technology is teasing more and more entrepreneurs

to take a lead in what some would say had been a hitherto, relatively conservative business model. Take, for example, the burgeoning area of demolition robots, which Franken acknowledges is one in which CSDAA members are competing head-on with traditional demolition companies.

Husqvarna and Brokk presented a riveting presentation at the CSDAA conference highlighting their latest developments in this burgeoning area. Will Visser, Brokk's general sales manager in Australia described the company's latest range of demolition robots, including the new 120D diesel-powered machine, which made its debut at the World of Concrete show in Las Vegas in February prior to its official launch at Bauma in Munich in April. The company will also mark its 40th anniversary this year.

The 120D, which is completely independent from a fixed power source, is 1.25m tall, 2m long and 1m wide. The company says it is small enough to pass through a standard door opening. The 120D follows the Brokk 800 and Brokk 400 as the third and smallest of the company's diesel machines. (See Brokk at Bauma, Hall FM.613)

"This is one area where the future of concrete cutting in demolition is in its infancy," said Visser. "There





is still a lot of work to be done to promote remotely controlled robots in the role of concrete cutting, as it's such a potentially dangerous operation. But it must and will happen, as it is already in Europe, Scandinavia, the US and Asia."

Ground penetrating radar technologies were also well represented at the show. Industry grandee Lloyd Williams, a former long-serving president of the CS-DAA, reckons the technology, which has been around for some time, and which his firm Traxx has been selling for 8-9 years, will continue to grow in importance and improve in sophistication. "It's undoubtedly one of the fastest-growing areas of the industry. Everyone needs to be aware of the location of pipes, cables and other services," said Williams.

But, aside from the crusty, sometimes challenging-to-digest must-have diet provided by the annual industry jamboree, there are always those inspirational talks by non-industry speakers. And they can often be brushed off as entertainment and of little relevance. Not so.

Matt Weeks of Auscut was just one who believed these intermissions were every bit as important as gaining the latest technical and operational information in the business. Andrew Morello won the hit television show *The Apprentice* with Mark Bouris. A charismatic speaker and raconteur, he told delegates: "It's not necessarily about the hours you put in... it more comes down to productivity and the quality of your work."

The message went down well with the audience. Weeks said: "A lot of what he said was about how you deal with your client, and how you make them feel different. It can make a big difference to how you do business".

**Tyrolit put on a great show.**



**Jason Franken is President of CS-DAA and a regular contributor in PDi.**



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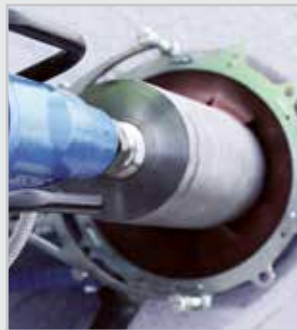
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# AQUAJET REMOVE bridge pylon concrete

Two Aquajet robotic water cutters have been used to remove surplus concrete from around the inner steel structure of a pylon for a bridge across the River Neva, part of the Western High-Speed Diameter highway at St Petersburg in Russia. The WHSD will provide a key link between the Scandinavian Peninsula, Continental Europe, Central Russia, and the Baltic States.

Turkish-Italian construction company ICA Construction is constructing an 11.57km section of the highway under a US\$1.6bn (€1.44bn) contract and four-year construction programme that includes three high-level bridges, together with low-level viaducts and smaller overbridges.

One of the bridges is the Petrovsky Fairway Bridge, a 560m long cable-stayed structure across the River Neva to link two islands, shortening the present transportation time from more than one hour on the existing congested roads to between 10 and 15 minutes.

The Petrovsky Fairway Bridge will be a visually impressive structure, with two needle-shaped towers each 120m high. The deck will be supported by four planes of cables. It has a central span of 240m, providing a clearance of 25m.

On the northern pier ICA has used two Aquajet hydrodemolition robots to cut away surplus concrete from near the top of the pylon. The Aquacutters were rented by hydrodemolition specialist Termited, a sister company to DUS, distributor for Sweden's Aquajet Systems in Finland and Russia.

"For this project we used the Aqua Spine from Aquajet which is the most effective and flexible equipment you can find in the market for this type of job," said DUS development director Max Petrov. "It is easy

to build the system in the size needed by using the multi-modular Aqua Spine. The spine is made to handle the reaction force from a 500kW pump with 262litre/min. The height of the area to be removed was 10m so we assembled the Aqua Spine in the same length. We built the complete system on the ground, which reduced the set up time."

The 10m high Aqua Spine mast was lifted in place and bolted onto each side of the pylon. An Aqua Cutter 410A was used as the Power Control Unit to control the Aqua spine.

"ICA wanted to remove the concrete without causing any damage to the inner steel structure, and needed to save the vertical rebar to spend less time on recasting. "The concrete to be removed was at a height of 84.5 m to 94.5 m, and the amount to be removed was about 77m<sup>3</sup>," said Petrov.

The power pack was placed at the bottom of the pylon and a 120 m long high-pressure hose fed up inside the pylon was used to access the working area.

"Our water source was the Finnish Gulf. We used three-level filtration to prepare water for the plunger pump and the used water was fed back into the sea. A caisson wall filled with sand and crushed stone surrounds the pylon and this acted as a filtration and settling tank, so the water that was pumped back into the Gulf was almost entirely clean.

"This is only the sixth or seventh hydrodemolition project in Russia, but the concept is rapidly gaining interest. The Petrovsky Fairway Bridge has been a very high-profile job, and we are convinced that the market will grow strongly for Aquajet robots within the next two to three years."



## Brokk refurbishment in the north of Sweden

In a small town in the north of Sweden contractor Skelleftea Concrete Cutting is using a Brokk 60 demolition robot equipped with a Darda CC260 concrete crusher and SB52 breaker to demolish parts of two apartment buildings prior to renovation. SCC is using the equipment to take out concrete walls, bathrooms, pillars and to drill holes for ventilation. The use of the Brokk was the only possible solution in the congested rooms, as there was insufficient space to cater for a normal excavator and using hand held tools would have been too time consuming.



## Sennebogen recycles in Sweden

For over 125 years, the Swedish company CarlF has been involved in waste disposal and recycling in the Malmö region. While transport with horse-drawn carts was at the forefront of their business in the early years, the family owned company, now in the third and fourth generation, has since become a recycling specialist and has three Sennebogen material handlers sorting and material handling.

CarlF has taken care of waste disposal in the Malmö region since 1888 and collects and sorts around 120t/day of construction rubble and industrial waste. The two 818 material handlers and a new Sennebogen 821 are used especially for feeding a Doppstadt shredder.

As the two 818's had been reliable for over 7,500h and there was a good cooperation with the sales and service partner, OP System, CarlF decided on another Sennebogen material handler. The new 821 E is equipped with a 97kW diesel engine and has a range of 11 m. The sorting grab pre-sorts the incoming material and feeds it to a Doppstadt shredder. At the same time, the Maxcab, which can be elevated by 2.7 m, providing a good and safe view of the shredder.

CarlF exclusively relies on small, manoeuvrable machines that can move around the scrap yard. With an operating weight of around 23t and all wheel drive, the new 821 can go wherever it is needed with speeds of up to 20km/h.

"The reliability of the Sennebogen machines and the good cooperation with OP System sold us on the Sennebogen 821," said CarlF operations manager Torbjörn Jönsson.



# Something NEW!

## MEP Breaker

It is not often that the demolition industry is offered a new tool for efficient crushing and breaking in a wide variety of applications. The MEP Breaker series of demolition tools is a new approach to solve a multitude of needs, e.g. by a revolutionary patented launch system and a simplified hydraulic system.

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Bridges, arches, vaults, slabs, and other massive concrete structures. In most of these applications the MEP Breaker is used for primary breaking.

#### Boulders and stones

The same basic process is applied when breaking large boulders above the ground and large underground stones.

#### Steel slag and cast iron

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#### Other applications

Compacting embankments is a further application as well as crushing of ground frost.

The MEP Breaker series includes three models. They all can be mounted on a 45t excavator. MEP Breaker is, indeed, a versatile piece of machinery. You get further information by contacting the manufacturer below.

# MEP Steel

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[petri.kiiskinen@mepsteel.fi](mailto:petri.kiiskinen@mepsteel.fi)







## ATLAS COPCO'S NEW HILIGHT TOWERS

Atlas Copco is launching a new range of light towers. The HiLight V4 and V5+ include a HardHat canopy as standard. The range of light towers is intended to provide construction firms, outdoor event organisers and other industrial users with a set of lighting options to address all efficiency and safety requirements.

The HiLight V4 is a solution within the 4kW

metal-halide light tower segment, while the HiLight V5+ incorporates LED lighting technology and increased fuel efficiency. The V5+ offers significant fuel savings of up to 60% when compared to the typical fuel consumption of 6kW metal halide towers. The V4 model can illuminate an area of 4,000m<sup>2</sup> and the V5+ approximately 5,000m<sup>2</sup> with an average of 20 lux.

## Powerscreen to launch electric screen at bauma

Mobile crushing and screening equipment manufacturer Powerscreen will have the global launch of its electrically driven Warrior 1400XE heavy-duty mobile screen at Bauma on stand FM711.

"The Warrior 1400XE shows our response to customer demand and our commitment to embracing a more environmentally aware approach to innovation," said Powerscreen product manager Oliver Donnelly. "This latest development utilises a combination of highly efficient electrical components and clever design to deliver the lowest possible cost for every tonne of material processed through the machine. While we are excited about the low running costs, we are proud to have produced a machine where customers will also quickly see dramatic savings in the costs associated with maintenance and servicing."

The Warrior 1400XE builds on the success of the standard Warrior 1400X. The main benefit is the

variety of power options available. It can be powered by electricity generated by other Powerscreen models such as the Premiertrak 600 jaw crusher. It can also be self-powered with its own 72kVA generator, or be connected to a mains electricity supply for even further reductions in cost of ownership. The Warrior 1400XE can also be powered from an electric drive crusher with a barely noticeable effect on the crusher fuel consumption. This has the added benefit of eliminating the engine maintenance on the Warrior. Similarly in high altitude or high ambient temperature regions, the Warrior 1400XE can be powered as part of a machine train from a single generator, which can be oversized to handle any de-rating caused by the operating environment.

The Warrior 1400XE is also more suited to running indoors than a conventional diesel-hydraulic machine and the extremely low noise levels will also be advantageous in many circumstances.



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## Chicago Pneumatic's new light towers

Chicago Pneumatic is adding two new V15 light towers with heavy-duty polyethylene canopies. The CPLT V15 comes with metal halide technology, while the CPLT V15 LED features LED lighting technology and can light an area approximately 25% larger, while proving additional fuel efficiency benefits. A Kubota EPA Tier 4 engine powers both options, which are equipped with a 127litre fuel tank, allowing the light towers to operate for many days without the need to refuel.



## New Husqvarna PP 490 power pack

Husqvarna's new PP 490 power pack has been designed for use with the Husqvarna WS 482 HF wall saw, CS 10 wire saw and Husqvarna Prime power cutters and drill motor.

"The PP 490 is a modular system, that makes it possible to use several machines with one single power source," said Husqvarna Construction Products product manager Helena Lindkvist. "In this way operators have the flexibility to do wall saw cuts and over cuts as well as other jobs with one system. It saves valuable set up time, bringing higher efficiency and productivity and higher profit."

"With new PP 490 as a base, it is easy to add on machines to your range in order to increase your capacity to deliver different kinds of jobs."

The PP 490 has a wireless remote control allowing operators excellent control of sawing and freedom to move around site. The remote control has a display that shows the current performance of the product in use.



## Furukawa Rock Drill's new products at Bauma

Furukawa Rock Drill will use Bauma to launch several new products, including Fx hydraulic breakers, the VXB primary crushers and RC22ER rail cutter.

The five new Fx a series hydraulic breakers, with an operating weight of 69kg to 275kg are designed for use on excavators ranging from 0.5t to 7t. They are fitted with an adjustable pressure/flow adjuster to ensure optimum performance with the host carrier excavator.

As with all FRD products, the Fx a series comes with interchangeable parts such as rod liner and front cover. The rod liner can be changed easily and the rod pin is easy to reach, so that the rod can be changed without any problems.

FRD offers these small breakers in three different frames. The models FX15a to Fx55a in a standard version for pin mounting, the models Fx2a S to Fx55a S in a silent version and the Fx25a XS to Fx55 a XS in the Xtra silent version.

Alongside the Fx a series of hydraulic breakers FRD will display three models of its VXB series of primary crushers for excavators weighing from 2t to 13t. The VXB series have a compact design, large jaw opening and high crushing power. The crushers have an integrated booster system, which allows smaller excavators, with limited operating pressure, to achieve extremely high crushing force.

All models are fitted with the FRD hydraulic rotation system for precise positioning. As with the whole FRD range, the crusher body and their jaws are made out of Hardox. Depending on the model, the jaws are fitted with replaceable teeth.

FRD has responded to the growing demand for cutting railway tracks and will use Bauma to present its first rail cutter model, the RC22ER, designed to cut high tensile bars. All current Vignol rail tracks up to 900N/mm<sup>2</sup> with profile size S7 UIC 60/60 UNI can be cut precisely. A force of 1,390kN and kinematics of the movable jaw, which has an opening of 225mm, provides the necessary power to cut all common profiles, as well as the UIC 60 profile.

The RC22ER, for use with 21t to 35t class excavators, weighs just under 2.5t and is fitted with special cutters, which can be rotated so all four sides of the cutters can be used. The reverse mounted hydraulic cylinder has maximum protection and long service and maintenance intervals have been achieved. The RC22ER body is made of Hardox and has undergone special heat treatment.

FRD will also use Bauma to add two models to its FXJ series of hydraulic breakers, bringing the range to six models for use on excavators weighing 9t to 75t.

## DSB TO LAUNCH NEW MACHINE AT BAUMA

The Austrian manufacturer of mobile crushing and screening machines dsb Maschinenbau will present a new dsb Innocrush imachine at Bauma.

The company has established itself in the past 10 years as one of the leading manufacturers of impact and jaw crushers. The company has developed a new machine with a revised design that will be launched at Bauma. An industrial designer was instructed with a design study to give the machine a new look. The design should supplement and summarize clear functional units of design technology.

"We listen carefully when customers report their operations and provide input and suggestions on what would be necessary, useful or helpful to the existing valuable features," said dsb Maschinenbau general man-

ager Dieter Durstmüller, "It makes no sense to design a machine on the drawing board; it's about to build powerful crushers, which are easy to use and meet the customer's exact requirements. "Even with the current development, our focus was clear: functional design and highest output."





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# CORING NEWSBITS

*Bauma, the biggest event in construction industry, is almost here. Eagerly awaited by suppliers and contractors alike, the triennial show is set to break new records in terms of attendance and the number of product launches. In this feature, PDi's Andrei Bushmarin previews some of the new core drilling equipment that will be on display in Munich.*



## **HILTI's** autofeed unit with Cut Assist technology

Hilti will display the DD AF-CA Autofeed unit with the Cut Assist technology. Compatible with the Hilti DD 350-CA and DD 500-CA drilling systems, the DD AF-CA analyses the surface being drilled and moves the core bit into the base material at a push of a button. Water supply is automatically switched on and off during operation. A built-in iron boost feature increases power when a rebar is detected and instantly adjusts the contact pressure to deliver consistent performance. Once a hole is drilled, the Cut Assist automatically shuts down the motor and water supply and retracts the core bit.

The DD 350-CA and DD 500-CA core drills come complete with Hilti's HI Drive. This consists of a brushless 1kHz HF motor, ten electronic gears and electronic power steering protecting the tool from overheating. To achieve the maximum drilling performance, Hilti recommends using Equidist H-Line core bits together with the DD 350-CA and DD 500-CA. The bits contain 14 active diamonds and 11 cutting tracks per layer. Featuring laser-welded segments, the core bits are usable on all types of concrete and steel. The segments have a wave-shape design to reduce friction and extend service life of the tool.

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





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## TYROLIT extends dry drilling range

The new dry coring system from Tyrolit comprises the DME19DP\*\*\* and TGD drill bits. The drill motor features an LED display and soft impact and soft start functions. Thanks to an integrated input, the system can work with any conventional dry vacuum cleaner. The motor can be used either in handheld mode or mounted on the Tyrolit DRU160\*\*\* drill stand.

A range of accessories, including a centring aid and granules for resharping the core bit, is also available.

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



## MEIJER DIAMOND TOOLS to launch a new double drill stand

Meijer Diamond Tools, a supplier of diamond consumables and concrete cutting and drilling hardware from the Netherlands, is preparing the launch of a new double drill stand. Tentatively named "ConneXX", the stand features a double column for large-scale jobs and serial drilling and a vacuum footplate with five adjustment options. The stand has no cast elements, with every part produced out of full material. The company is positive about the market success of its latest innovation.

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



## OTTO BAIER to showcase a new drill motor at Bauma

Stuttgart-based Otto Baier will use Bauma to show five new products. One of these is the BDB 825 drill motor for dry coring in reinforced concrete. Designed for 60mm to 200mm core drilling tasks, the motor can be used in handheld and rig-mounted mode. The motor features a soft impact function, which increases the rotational speed when drilling in hard materials and helps remove dust. Thanks to a wet adapter, the machine is also suitable for wet drilling.

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





# NEW HUSQVARNA PG 680 RC FLOOR GRINDER

Husqvarna's new floor grinder PG 680 RC has an oscillation function that allows operators to mimic manual operation movements.

"The oscillation is a new function for all Husqvarna's remotely controlled floor grinders," said Husqvarna Construction Products floor grinding global product manager Joakim Leff-Hallstein. "With it users achieve the best possible grinding pattern by adjusting amplitude and frequency. It also gives a flatter floor by eliminating ridges created between passes. At the same time, the oscillation function saves time for operators, as they only have to go over the floor once with the machine, instead of using the cross hatching technique. Another advantage with oscillation is that you get a broader sweep of the grinder when operating and this reduces ridging on soft floors. The remote control function on the PG 680 RC can also be tailored to different surfaces to achieve superior results."

The PG 680 RC has a 680mm grinding width and easily fits through a standard door opening. It also comes with dual drive technology and is one of the market's most efficient machines that can be optimised for each application. It is an ideal choice for concrete floor preparation and repair as well as all polishing and grinding applications, both wet and dry. It is also perfect for the Hiperfloor concrete floor polishing system.



## Bell's all-weather alternative to rigid trucks at Bauma

The South African manufacturer Bell Equipment will use Bauma to display its 60t capacity articulated dumptruck on its stand 148 in Hall B5. The prototype B60E, capable of moving large volumes of material in all weather conditions and provides an alternative solution to rigid dumptrucks. It has a 4x4 drive configuration with full articulation steering and an oscillation joint giving the ability to keep all four driving wheels on the ground and fully utilise the available traction. The first generation Bell B60D was introduced as a concept at the inaugural Bauma Africa in 2013. Since then it has been running on various sites in Africa where it has gained popularity for its suitability in all weather.

Further Bell Equipment will launch its latest 41t carrying capacity B45E articulated dump truck to replace the previous D series model. The B45E has a body capacity of 25m<sup>3</sup> and together with Bell's other E series articulated dump trucks has been in development for three and a half years. It is planned for worldwide release towards the end of this year.

## ATLAS COPCO PORTABLE ENERGY AT BAUMA

Atlas Copco's Portable Energy division will unveil an array of new equipment at Bauma. At the forefront of the new launches will be the 8 Series compressor, which the company claims sets new standards in almost every category, from size and weight to efficiency and performance. A feature of the 8 Series compressor will be the repeat of the HardHat protective canopy. The division will also extend its QES range of generators specifically aimed at construction and rental markets.



## LiuGong's 856H wheel loader for Europe

LiuGong's new 856H wheel loader from the Chinese manufacturer has been developed to meet the needs of the European market and its strict emissions standards. Weighing 17.8t and equipped with a 3.3m<sup>3</sup> bucket, the 856H wheeled loader fully complies with EU Stage IV emissions regulations. It has been designed for use in extreme to light conditions across mining, energy, quarry, sand, earth moving, coal and other environments.



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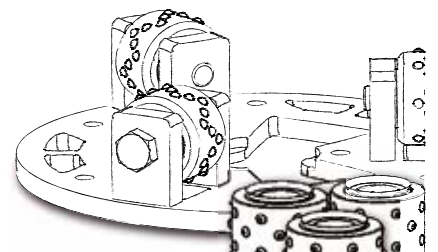
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# NEWS FROM STANLEY LA BOUNTY

Stanley Infrastructure is a division of Stanley Black and Decker. It consists of four divisions: Dubuis, HS Blades, Stanley Hydraulic Tools and LaBounty.

## La Bounty

The LaBounty factory, a part of Stanley Black & Decker was founded in Two Harbors, Minnesota, USA. For more than 40 years LaBounty has specialized in manufacturing attachments for demolition and scrap recycling activities. LaBounty now has a wide range of universal processors from 1.77t up to 14t using a variety of changeable jaw sets. Since 2014 the range of MSD mobile shears for scrap metal processing and demolition was updated with two new MSD shear models. The MSD2250 is for carriers of 25t to 50t and MSD 800 for 9t to 12t carriers..

At Bauma the company will release a modernized universal processor multi-system with faster interchangeable jaw sets for concrete cracking, concrete pulverizing, reinforced concrete processing, scrap metal shearing, and plate shearing.

## Stanley Hydraulic Tools

Stanley Hydraulic Tools has been part of the Stanley Corporation since 1972. Stanley Hydraulic Tools has

been committed to the manufacture and large distribution of quality tools for the professionals, industrials and consumers. The company has sales offices and distributors throughout North America, Central and South America, Europe, Asia, Australia and Middle East. The company currently offers over 150 hand held hydraulic tools.

## New compaction tools from Stanley

Stanley Hydraulic Tools launched a full line of light compaction tools this year. This included a line of rammers, forward plate compactors and reversible plate compactors, all made in Germany.

At Bauma, Stanley will show different sectors of activity and demonstrate handheld hydraulic tools. Hydraulic power packs will be shown working with breakers, chain saws and grinders.

## HS Blades

HS Blades, formally known as Horst Sprenger recycling tools, is located in Moers and has over 30 employees and a large network of distributors. Despite the change in name to HS Blades, the range of products remains the same. The blades will be on display for the LaBounty Shear MSD 2250, accessory kit for a briquetting machine and hammer pins for shredders.



# Chicago Pneumatic adds GENERATOR OPTIONS

Chicago Pneumatic has introduced new optional features to its CPDG mobile diesel-powered generator range, including higher capacity fuel tanks, road trailer options and a galvanised skid. The five-model range is

available in 9, 14, 20, 30 and 40kVA ratings and will soon be extended with new power nodes up to 200kVA. In addition CP has also added a new single-phase version of the CPDG generator.

## HTC launches 800 RXP floor grinder

HTC launched a propane powered version of its 800 RX grinder at the recent World of Concrete trade show in Las Vegas, US.

The four head 800 RXP offers up to 50% higher productivity, using remote control and drive on wheels. It can be used in areas without access to power or a generator, or where electrical equipment is not allowed.

"HTC is always innovating to make life easier for our customers," said HTC technical director Brad Burns. "Together with our diamond tooling, the new 800 RXP will help customers save time, deliver top notch quality, and be more profitable."

The 800 RXP grinder has been designed with ergonomics in mind, and is simple to use. The propane power is environmentally sustainable, and the floating grinding cover helps reduce air-borne dust.





## Montabert's greasing solutions

One of the keys to increasing the lifespan of the major wear parts is optimum greasing.

Montabert breakers can be equipped with automated greasing stations. These include a cartridge-fed model, mounted on the breaker and a bigger model,

mounted on the carrier. For Montabert's heaviest breakers, the greasing station can hold enough grease for one week before needing a refill.

Montabert has also worked with grease manufacturers, to offer a dedicated and efficient product, the BreakerLub.



## Atlas Copco's new LG plate compactors

The LG 504 is the latest addition to Atlas Copco's forward and reversible plate compactor family. The machine provides excellent traction, especially on wet soil thanks to higher frequency, higher centrifugal force and higher amplitude. The LG 504 is equipped with a compaction indicator which helps

the user get it right first time. The LG 504, like all Atlas Copco forward and reversible plate compactors, is an alternative and a complement to rollers when compacting soil in confined areas. The new LG 504 will be on display at Bauma at stand FS 1108 in the outdoor area.



## HYUNDAI'S NEW HX260 L CRAWLER EXCAVATOR

The South Korean manufacturer Hyundai has added the HX260 L to its range of crawler excavators. The 26t class machine is powered by a 142kW Cummins

Stage 1V QSB8.7 diesel and has a bucket capacity ranging from 1.08m<sup>3</sup> to 1.5m<sup>3</sup>. Maximum digging depth is 7m and reach is 10.36m.

## New PRO hammers from Rammer

Rammer has introduced two new PRO hammers the Rammer 2577 PRO and Rammer 5011 PRO. They are suitable for carriers in the 21t to 32t and 43t to 80t weight range respectively. They have been designed to work horizontally and undertake tunnelling duties in hard rock, being purpose built to withstand high levels of dust.

The 1.94t Rammer 2577 PRO and the 5.3t Rammer 5011 PRO are based on the proven Rammer 2577 and 5011 hammers. Both new models possess features such as an Idle blow protector that works regardless of working mode to provide greater levels of protection. Additionally they are equipped with long-life, high-tension VIDAT tie rods for improved reliability, extended service periods and lower operating costs.

These standard Rammer features are backed by a range of enhancements that help the PRO range to withstand extreme working conditions. Customers will be able to benefit from a sealed housing structure that prevents the ingress of dust and dirt, thereby extending the working life of both the hammer and the tool. A top cover plate has sealed through apertures for stump hydraulic hoses, and features sealed hose connections for grease, air and water.

The PRO hammers have a housing design and wear plates that make them perfect for horizontal working duties, including applications such as tunnelling. To match the demands of the extreme applications, the Rammer PRO range models are also offered with special tools for horizontal primary breaking, which have been designed to work with a broad range of auxiliary systems.

For customers working in tunnelling applications, Rammer has a package of auxiliary systems and solutions such as the air grease water. These have been designed to protect the hammer from the demands of this extreme application; delivering lower owning and operating costs.

The air grease water unit comprises special features designed to aid tunnelling activities. These consist of the Ramair air flush system that prevents potentially harmful dust ingress; the Ramlube I automatic lubrication system to ensure consistent and thorough greasing; and the water jet dust suppression package to minimize the creation of dust during breaking.

Hydraulically actuated and requiring no additional power supply, the air grease water unit is easy and safe to install and maintain. It helps ensure that all Rammer PRO hammers are protected and productive throughout their working life. All these key features are backed by long life, wear resistant Rammer parts available from the Rammer global dealer network.





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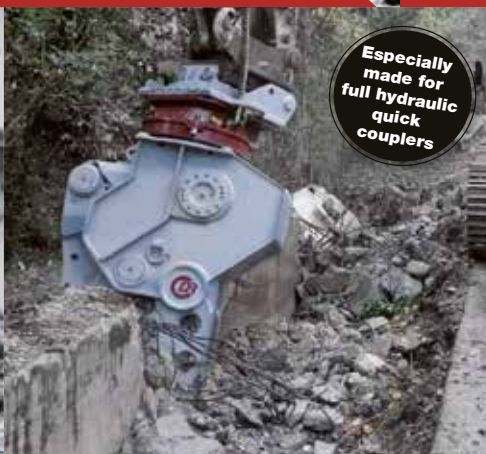
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# A TILTING POINT

***Thanks to increased versatility, productivity and safety, tilt couplers are becoming increasingly popular with operators of excavators and loaders. Following this trend, many manufacturers of quick hitches have started introducing tilting models. Andrei Bushmarin reports.***



## MILLER UPDATES POWERLATCH AND LAUNCHES MILLER MATE

The UK attachments specialist Miller recently added a tilt option to its PowerLatch range of quick couplers. Available for 3.5t to 20t machines, Miller's PowerLatch Tilt coupler builds on the TwinLock design introduced in 2009. The ABS backup system ensures that attachments remain engaged on both pins in the unlikely event of loss of engagement force. With up to 180° tilt the PowerLatch Tilt is ideal for a variety of applications, such as grading, road construction and demolition. Other features include a self-lubricating actuator, variable pin centre design and side mount arm.

Also new from Miller is Miller Mate, a device that simplifies the operation of a quick coupler during attachment changeover. Miller Mate replaces the existing toggle-style switch with a simple and intuitive full-colour LED interface, which can be mounted in the cab of any new or existing machine. Miller Mate ensures that the operator is reminded of the correct and safe operating procedure when the attachment is being changed.

An LED warning light and audio stand clear message alerts those working in the vicinity of the machine that the operator is releasing the attachment. Miller Mate will only operate the hydraulic cylinder within the coupler when the operator has confirmed they are at the correct stage of the process. With the additional benefit of a LED warning light and audio "Stand Clear" message to alert ground workers that the operator is releasing the attachment, 'Miller Mate' offers protection and safety to those working in the vicinity of the machine. 'Miller Mate' will only operate the hydraulic cylinder within the coupler when the operator has confirmed they are at the correct stage of the process.

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



## GEITH NOTCHES IT UP WITH POWERTILT

Ireland-based Geith has launched a new model that combines the company's proven coupler technology with the PowerTilt option. Suitable for 6t to 25t excavators, the new system makes it easier, safer and faster for the operator to change attachments from the cab. The 180° tilting feature reduces the required repositioning of the excavator and leads to higher productivity. The coupler has a front and rear safety locking mechanism to secure both attachment pins. The spring activated safety lock system works in all environments. The variable pin centre design allows easy pick up and change of a wide range of work tools while the Geith patented curl to release control system guarantees the attachment is only released in a safe position.

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



## CONNECT SYSTEM FROM MECALAC

The French manufacturer of compact excavators and loaders, Mecalac introduced its M-CONNECT quick coupling system at last year's Intermat show. Recognized with a Silver Award, the system was first tested on the Mecalac 10t 12MTX wheeled excavator.

To follow up on the success of M-CONNECT, Mecalac is now introducing a fully automatic system CONNECT that can be operated from the cab. Mecalac's buckets and attachments are fitted with hook elements to enable connection by two pins located at the end of the boom. The hooks are shaped to prevent disengagement of the pins when the work tool is in operation. A hydraulic cylinder connecting the two pins performs the engagement or release. A detection system enables the operator to check the tool connection without having to leave the cab. The Connect is easy to use and maintenance-free.

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



## KINSHOFER SHIFTS FOCUS TO GERMANY

Building on the success of the S-type coupler, developed by its Swedish subsidiary RF-System, and its own X-Lock pin-grabber style coupler, Germany-based Kinshofer Group is now focusing on its domestic market. Knowing first-hand the priorities of local customers, the company is offering them mechanical KMS and KHS hydraulic quick couplers, ranging from 0.5 t to 40t. The TC Tilt couplers, with a rotary actuator for 1.5t to 22t carriers, are also available. A line of digging, ditching, and tilting buckets ranging from 0.5t to 40t complements the product portfolio. Tilt buckets come either with hydraulic cylinders or Kinshofer's rotary actuator, depending on customers' requirements.

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



## A-LOCK SYSTEMS FROM WIMMER

Wimmer Hartstahl, a family-run company from Austria, has been manufacturing quick couplers and excavator attachments since 1984. One of its most popular mechanical models is A-Lock whose main advantages are simplicity, reliability and universality. Intended for excavators without hydraulic circuits in the boom, it features a simple locking mechanism and a safeguard system for the locking bolt. Thanks to the fact that no parts jut out sideways, it is particularly handy with narrow buckets. The hydraulic version of A-Lock from Wimmer is called A-Lock Oilmatic. It takes just two steps to fit the attachment. Once the attachment has been locked in place, the hydraulic coupling mechanism becomes operational. A built-in sensor prevents the hydraulic connectors from being extended into position if an attempt is made to connect any attachments not fitted with the Oilmatic technology. The central position of the coupling mechanism serves to protect the coupler against any mechanical damage or foul play.

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



# Demarec's story of relentless INNOVATION

***Netherlands-based Demarec is one of the world's trendsetters in demolition and recycling attachments. Continuous innovation was the goal its founders Marcel Vening and Ruud de Gier set for themselves from the start and they keep relentlessly pursuing it to this day. Andrei Bushmarin reports.***

Popular opinion has it that a typical Dutch is well educated, free-thinking, enterprising and ambitious. They have a highly developed sense of self-worth and usually it is justified. If this be true, Demarec's principals are the definition of "Dutchness".

## **Getting out of Caterpillar tracks**

The founders of Demarec met in the 1980s while working at Verachttert, once a pioneering manufacturer of excavator attachments and quick couplers based in Den Bosch. Together they made a perfect team: one was an engineering wizard while the other a sales and marketing guru with vision and drive. With a combination of skills like that their joint venture was bound to be a success.

Venturing out on their own was a push of fate, which, in their case, took a form of takeover of Verachttert by Caterpillar in 1998. Verachttert was a medium-sized family-owned company whereas Caterpillar was an industry behemoth with its own rules and regulations. This was not a future that Marcel and Ruud envisioned for themselves, so they left to start one of the most creative companies in demolition business.

## **Grabbing the market**

Demarec, the amalgam of demolition and recycling, was formed on 1 January 2001. For any new company first steps are usually the hardest, and Demarec was no exception. Vening remembers those early days as a day-to-day struggle to carve out a niche in a very saturated market. They rented a facility and got down to work. Demarec's



**Demarec's new office and production facilities in Cuijk.**

first product was demolition and sorting grabs DRG-28-DN for mid-range carriers, and the first company to acquire one was a recycling specialist Van Vliet Contrans based in Wateringen. The grabs boasted the now familiar Demarec features such as the delta box frame, a single large diameter cylinder for closing and opening operation and a perforated shell plate. Customer feedback was encouraging, and Demarec pressed on.

## **Take-off time**

Once the market got a taste of Demarec's products, progress gathered pace for the Dutch manufacturer. In 2003, Demarec added a series of static and rotating pulverisers for secondary demolition tasks. But the real break-through came one year later when Demarec



**Scrap shears are an ever-growing business for Demarec.**

exhibited at Bauma for the first time. The highlight was the multi-quick processor line, featuring the newly developed demapower system and demalink system, allowing the changing of jaws in a few minutes.

The MQP was designed as a multitask tool suitable for demolition and pulverizing of reinforced concrete, as well as cutting steel and scrap metal. Equipped with two rotation motors with shock valves for extra power, the processors featured interchangeable jaws and Demarec's demapower system. With four pressure chambers, the demapower cylinder offered 20% more power than a conventional unit. The system was built around a double acting speed valve, which served to increase power of the attachment and to speed up cycle times. The jaws could be opened and closed within five seconds. The





**Marcel Vening – Demarec's Managing Director with the success award as the best company in the Dutch demolition industry in 2015.**



processors caused quite a sensation among demolition professionals, putting Demarec on the map as a world-class manufacturer.

#### **Kinshofer takes over**

Following its success at Bauma, Demarec began attracting the attention of big players. In 2006, Germany-based Kinshofer Group approached Demarec with a takeover offer. After much deliberation Demarec chose to accept it. For a company, which was independent from day one, it was a difficult decision, but practical considerations eventually prevailed. Kinshofer was an established brand with a worldwide presence and that was what Demarec needed at the time. The takeover turned out to be a win-win for both parties: Kinshofer strengthened its positions



**Ruud de Gier – Demarec's engineering wizard.**

in demolition and recycling, while Demarec gained access to its German partner's global sales network.

#### **Ruud must be one of the three best engineers in demolition, but I don't know the other two**

By the end of the noughties Demarec finalised its range of multi-quick processors and launched two new series of demolition shears and pulverisers under the name Dedicated Demolition Line. The DL series came with a standard cylinder while the DR series featured the already proven demapower system.

The company then shifted its focus to scrap recycling. The first scrap shear was introduced in 2010, with scrap recycling remaining an ever-growing business for Demarec

ever since. Within the space of a few years, its range of scrap shears grew to twelve models, with a new prototype expected to be unveiled at Bauma. Demarec also launched a new type of jaw for its bestselling multi-quick processors. With this new jaw, a smaller MQP 30 is equal in crushing force to a bigger MQP45 with a regular jaw.

Demarec has never been famous for low prices, but its attachments do have a reputation for high quality and performance. This reputation owes much to the technical wizardry of Ruud de Gier. "This reputation owes much to technical wizardry of Ruud de Gier who (as Marcel Vening speaks of him only half-jokingly) "must be one of the three best engineers in the demolition industry, but I don't know the other two".

#### **New home**

Over the years Demarec has controlled its growth to stay at a manageable level. With a staff of 25, it manufactures a spectrum of demolition and recycling attachments, except hydraulic breakers. Staying away from breakers and focusing instead on silent demolition tools was a conscious decision. For one, noise regulations are pretty strict in Holland, but even more important is that manufacturing hydraulic breakers is a less technology-intensive process.

Currently Demarec sells in over 40 countries worldwide through Kinshofer's dealer network. Last year was particularly productive and eventful for the company. After 25 years in business, its accomplishments were recognized with a success award, as the best company in the Dutch demolition industry. In late December the company moved out of its old premises in Sint Anthonis into a new 15,000m<sup>2</sup> complex in neighbouring Cuijk with office and production facilities under one roof.

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



The production facilities are modern and well organized.



# No duty is too **NORDIC**

***Nordic Lights, located in Pietar-saari, a small town on the Gulf of Bothnia in western Finland, is a specialist manufacturer of work lights for on and off-road vehicles. Robust and durable its lights are particularly suitable for machines used on demolition and recycling sites. Andrei Bushmarin reports on his visit to the Finnish manufacturer.***

Work lights were not something that Bernhard Hermans and his wife Lisbeth planned to focus on when they founded the company in 1959. The young entrepreneurs chose bicycle components such as rim tape, grips, reflectors and chain guards as their core business. Little did they know that three decades on a new management would see the light and reinvent the company as a manufacturer of lighting equipment. "In 1988 we evaluated different options for the future. The idea to start producing lights for construction machinery came when I participated in a leadership course in Sweden. For us, it was a totally new area of business and a huge risk, but eventually we were proven right in our choice of direction," said Nordic Lights managing director from 1987 to 2003 Lars Kronhom.

**The Nordic Scorpius LED N4401 QD is the work lamp for many heavy-duty applications.**





# Too heavy for C LIGHTS

**The Nordic Sculptor LED 6001 QD is the world's first all LED ECE approved combination light.**



combination head light in serial production.

By that time Bernhard Herrmans had already sold the company, so it was down to the management team to make that life-altering decision. It took Nordic Lights a few years to overhaul the production lines and began manufacturing work lamps on a commercial scale. In 1992 that the first halogen lights N100 and N200 for heavy-duty machinery hit the market.

## Building up the range and reputation

Throughout the 1990s Nordic Lights built its product range and promoted its brand on a global level. In 1999 the company launched its first xenon light model N200HID. It hoisted the company into the top league of suppliers, with xenon work lights for tough applications becoming a Nordic Lights signature product. Another milestone followed three years later when its management team, along with two outside investors, bought out the company. In 2008, the company diversified into the LED segment by launching its first N25LED model and Nordic Lights first auxiliary driving light N1300 HID Explorer.

## Unrivalled research and development capabilities

Since 1992 when Nordic Lights appeared in the market in its current incarnation, the company has expanded

its headquarters and manufacturing plant in Pietarsaari several times. Nordic Lights prides itself on its vast research and development capabilities that allow the company to stay head of competition while maintaining high quality of the products. A big part of the manufacturing area is occupied by the state-of-the-art laboratory and test facilities. They are run by a big team of engineers with expertise in optics, electronics, material properties and dampening solutions. Given their application, all Nordic Lights products are tested for shock, vibration, heat and cold resistance, dust and humidity and electromagnetic compatibility.

Different light patterns for a wide range of tasks are available from the Finnish manufacturer. One of its latest innovations, a shock dampening system called Quake, is suitable for work in demolition environments. The system ensures an even distribution of the vibration force across the unit, increasing shock-resistance and service period of a work lamp. The Quake system is used, for instance, in the Nordic Scorpius LED N44XX QD, often a first choice for heavy-duty applications. Also new from Nordic Lights is the Nordic Sculptor LED N60XX QD, which is the world's first all-LED, ECE-approved

## Global OEM supplier

Supplying lighting solutions to machine manufacturers on an OEM basis is the cornerstone of the manufacturer's business concept. Nordic Lights is the preferred partner of many global manufacturers such as Caterpillar and Komatsu. With a staff of 200, Nordic Lights is a mid-sized company with a worldwide presence. Construction, demolition and recycling are not the only industries where Nordic Lights solutions can be used. Reliability of a work lamp is the first and foremost requirement for manufacturers of mining equipment, and, according to the company, Nordic Lights is the world's number one supplier to the mining industry. Currently Nordic Lights sells its lighting systems to over 40 countries, with North America and Europe being its biggest consumers. To cater to the needs of international customers more efficiently, the company has established subsidiaries and sales offices in North America, China, Brazil and Germany.

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

**Nordic Lights research and development and production facilities are under one roof in Pietarsaari, Finland.**







## Rockster's latest at Bauma

The Austrian crusher manufacturer Kormann Rockster will use Bauma to present its latest developments to the R1100 range of equipment on stand 214 in Hall B2 and in the outdoor area 12B.2 and 12B.6.

"With our progressive technical solutions like the patented Duplex system, the double functional return belt or the world's first hybrid impact crusher, we can more and more underline our competitiveness compared with national and international companions in the market. All these features are possible with our R1100 range," said Kormann Rockster chief executive Wolfgang Kormann.

Rockster offers all of its plants with Tier3, or Tier4f engines. Experience with the Tier4f engines show that the extra power of 23kW has an appreciable effect on the crushing operation. The machine is faster starting and a lower crusher rotation speed is necessary requiring less fuel.

The screen box and return belt for the R1100 series has also been improved. It has been extended by 500mm and the hydraulic cylinders for lowering the screen box facilitate maintenance, cleaning or exchange of meshes.

The R1100 impact crushers are equipped with many new features, such as the fully hydraulic crush-

ing gap adjustment, the new central control unit or the new radio remote control with display. Operating parameters such as the rotor, feeder or motor speed can be easily adjusted. The automatic mode can also be

operated from the remote control. The central control unit displays a schematic layout of all processes and provides the possibility to save presets for up to three different feeding materials.



## Superabrasive's new products at WOC

At the recent World of Concrete exhibition diamond tools and equipment manufacturer Superabrasive introduced the latest addition to the Lavina line, the L25LM-X. This is a self-propelled 635mm grinding and polishing machine featuring a second motor that propels the machine forward for a steady work speed and consistent scratch pattern. The self-propelled motion makes grinding much easier for the operator and also minimizes the risk of mistakes and improves productivity.

Superabrasive also unveiled a new Lavina propane vacuum V-32-G, featuring a Kawasaki propane engine, Longopac bagging system and HEPA filter. Switching to a propane grinder and a propane vacuum eliminates the need for generators and all power and wiring issues, and allows for a faster and easier set up. The propane vacuum will be available for sale in the summer.

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## NEW RONDA 2800H VACUUM cleaner at Bauma

The range of the Danish Ronda heavy-duty vacuum cleaners has been extended with the addition of the Ronda 2800H that will have its world premiere at Bauma in Hall A1 stand 434.

The Ronda 2800H is available with a Longopac collection system, with a 40litre container for concrete dust, a 65litre container for rather light dust, and also a combination with Longopac bags in a container.

An optional flap valve unit over the collection system ensures almost dust-free emptying, where it is necessary. It will be possible to configure the machine for emptying during operation. If large quantities of fine concrete dust from a floor grinder are to be collected, it will be possible for one operator to empty the vacuum cleaner while another operator continues to work with the floor grinder.

The Ronda 2800H has been designed to handle large quantities of fine dust, and is equipped with the multi-tube filter system, which is used in other RONDA® machines. At the same time the filter load will be reduced by means of the cyclone effect. The machine is also equipped with the Ronda filter cleaning system.

The machine has three Green Tech motors, which can be switched on separately and is available for 230V and 380V. It has been designed for the construction industry and has a metal frame and equipped with large wheels, which make the machine suitable for transport between and on sites.

## WOC Awards Ceremony Celebrates CSDA Members

The most innovative and challenging projects completed by Concrete Sawing and Drilling Association contractors in 2015 were recognized during a ceremony at the recent World of Concrete exhibition in Las Vegas.

The CSDA, in conjunction with the Praxis event, hosted the third annual Concrete Openings Awards. This year's ceremony was staged at the Praxis booth in the outdoor Gold Lot of the Las Vegas Convention Center. CSDA executive director Patrick O'Brien acted as Master of Ceremonies while the association's president, Kevin Baron, presented the awards to the winner. WOC visitors and members of the industry media joined CSDA to celebrate with the winning contractors.

The inaugural Concrete Openings Awards ceremony was held in 2014 to showcase the best projects covered in CSDA's magazine and recognize the contractors who performed the work. This year, 16 job stories were split into

four categories and put before a panel of judges. The panel scored each job based on its pre-planning, use of innovation, and degree of difficulty and quality requirements. The project with the highest score in each category was declared the winner. Details and images of the winning projects were displayed during the awards ceremony and for the remainder of the exhibition.

"Just as I have seen for the past couple of years, these 2015 entries show the amazing skill and intricate planning that go into concrete cutting, polishing and imaging jobs," said CSDA past president Tom Stowell. "It was a pleasure to be involved in the judging process and I congratulate the winners for their fantastic work."

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

Company	Category
A1 Kiwi Cutters and Drillers. Auckland, New Zealand.	Roads, bridges and airports
Cobra Concrete Cutting Services. Arlington Heights, Illinois, US	Building construction
Hard Rock Concrete Cutters. Wheeling, Illinois, US.	Industrial renovation
Minneapolis Concrete Sawing and Drilling. Minneapolis, Minnesota, US.	Infrastructure renovation



## CSDA graduates up 83% at World of Concrete 2016

In the US the Concrete Sawing and Drilling Association's training programme surpassed its previous record at World of Concrete by graduating 115 students at the 2016 show in Las Vegas. This represents an increase of 52, or 83%, over the numbers reached in 2014 as the association expanded its courses to four and saw a surge in registrations.

For the fourth consecutive year, registrations for the CSDA Estimating course grew with an impressive 40 students. This number was equalled by the Concrete Polishing 101 course while the association's new introductory concrete sawing and drilling course Diamond Cutting: Sharpen Your Skills, had the largest number of graduates for this type of course since CSDA began holding them at WOC six years ago.

In addition, CSDA instructor Chris Swanson certified 22 students in the application of industry Standard CSDA-ST-115 Measuring Concrete Micro Surface Texture, a first for CSDA at WOC and another record for class graduates.

Practical demonstrations for the CSDA-ST-115 and Concrete Polishing 101 courses were held during an association-sponsored event. Praxis: Understanding Performance-Based Specifications was very popular and the largest slab construction, polishing and roughness average event in WOC history.

It gathered representatives from the specifier and insurance communities. Held at several shows throughout the year, the goal of Praxis is to bring transparency, clarity and accountability to the specification process.

"If anyone is looking for a sign that things are improving in our industry, then this is it," said CSDA executive director Patrick O'Brien. "The numbers reached by our WOC training courses exceeded all expectations and it is testament to the great job being done by our team of industry experts instructing the students. The association's reputation for providing high quality industry training continues to build, while a growing number of contractors are realizing the benefits of investing in employees as things improve on an economic level. Our involvement with Praxis provides a fantastic platform on which to engage with the specifier community and promote CSDA's industry standards."

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