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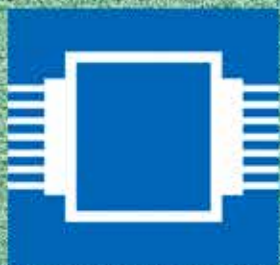


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# Are we missing the target?

Dear Readers

Branch associations that look after its member's interests are very important for industries in order to improve, grow and develop in the right direction. I am particularly thinking of demolition, concrete sawing and drilling, recycling, concrete floor grinding and polishing, hydrodemolition and water jetting. The most active associations are in demolition, concrete sawing and drilling and recycling. National associations are often very down to earth and precise in what they want to achieve. Some national associations are more active and far more ahead than others, which can depend on many different things like the size of the association and number and size of its members. But when it comes to umbrella associations like international associations, Pan-European or Pan-American, it is much more difficult to establish an agenda that really attract a big audience or even more the right audience.

In April I attended the International Association of Concrete Drillers and Sawers' annual meeting, as I have been doing for a number of years. And in June I attended the European Demolition Association's annual convention, which we report on in this issue. What struck me, and has done several times, is the poor attendance of contractors from various European markets. A few countries are very well represented, while some hardly at all. I would say that the attendance from Northern Europe is very weak. For example at the EDA meeting in Helsinki there were maybe one or two Swedish demolition contractors represented during the conference day. There should be at least 10 companies represented when the meeting was so close to Sweden. Even the Finnish demolition contractors were poorly represented. Similarly with the IACDS association there are too few representatives from the national associations attending the meetings. This is a serious problem that the industry needs to deal with before it will be too difficult to fix. One positive thing about IACDS is that the new president, Julie White, is a concrete cutting contractor and even more positive, a woman. New vice president is Philippe Wingeier, chief executive of Europe's largest concrete cutting group Diamantbohr. So the IACDS board now has a very strong contractor representation.

I hear far too often from contractors in Europe that the associations are groups of mutual admiration and too few results come out of their meetings. It is more a question of friends getting together and having fun than the exchange of valuable knowledge that can be useful for the profession and business. Also the number of suppliers represented at the meetings is too high in comparison with the number of potential clients.

I have asked several Swedish demolition contractors, who are members of the Swedish national association, why they do not participate at EDA meetings. They have lots of interesting case stories and demolition methods they could talk about. The answer I often get is that there is nothing for us and is not our style. The EDA and IACDS associations are contractors' associations, but on a Pan-European or global level but they are still contractors' forums. And with a shrinking world and increased potential to work outside the borders and to improve our working skills and efficiency by sharing, it should be in contractors' best interest to participate. The demands on contractors are also increasing, so in order to stay competitive it is important to stay updated with new norms and regulations. My question is: Are our associations aiming too high or going in the wrong direction?

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## Words from the IACDS President

# Co-operate!

Isambard Kingdom Brunel is one of the greatest ever engineers to hail from the UK.

In fact, he can still be regarded as one of the world's finest ever minds – a giant of engineering who, in the nineteenth century, came up with ground-breaking designs and construction projects that were way ahead of their time. Why, you might ask, have I begun my second column as president by describing Brunel?

I was at an infrastructure conference in the UK recently and heard a great speech by Sir John Armit, a well-known advocate of skills, centred round the construction industry. The issues he was addressing were ones we face in the UK – but from my dealings with many of you down the years, I know that you will agree that they are global and not solely matters for one country.

He said Brunel would be turning in his grave if he saw the way the industry is working today. We had the pleasure of working on one of Brunel's viaducts a couple of years ago and the innovation and ingenuity that had gone into it was mind-blowing. Where is that innovation coming from today?

Has construction become a conservative industry that insists on doing things the way they've always been done?

Perhaps we are being hard on ourselves but I see regularly how companies are working against one another rather than in collaboration.

The supply chain is absolutely vital in every industry but in construction every link in the chain is crucial to the other and rather than looking to 'get one over each other' we should all be working as one. Rather than working in silos, every area of construction and design should be operating together to get the best possible outcome on each job.

When it comes to payment, seeing the money filter down through the chain in quick fashion has got to be better for everyone. The more security that companies feel at every stage in the chain, the better it has to be for all of the companies involved – not least the client.

This might require a step change in attitudes from top to bottom but, in my opinion, it would bring benefits to the whole industry.

Another issue we have in the UK right now is around skills and my opinion is that the devaluing of apprenticeships over many years has meant few younger people have come into construction in the past decade.

There is a drive now from the Govern-



ment to put apprenticeships back on a pedestal and make them attractive to younger people and to encourage companies to take more apprentices on.

I applaud that and I only hope that it can make a difference over the next few years to help solve our skills crisis in the UK.

I look at countries like Sweden, Germany, Japan and Austria and how they have placed great emphasis on apprenticeships down the years and, from my perspective, that means that they haven't got the skills issue that we and some other countries have today.

This has to be a lesson that we learn for the future. I would love to hear from colleagues around the world on this because I really do want to know what's effecting the industry around the globe and not just in the UK or Europe.

I think most of us who suffered the effects of the global recession feel that the worst of the downturn is over and that there are opportunities out there that were not there just a couple of years ago.

But I feel that this means it's also a good time to get our industry in shape for the new challenges ahead and to set the bar even higher for each other globally.

That's what Brunel did over 150 years ago and that's something we can all draw inspiration from. Be sure to show the world that this level of 'out-of-the-box' thinking still exists by entering the IACDS Diamond Awards that will be held at Bauma 2016. And we can show Brunel and the world what our fantastic industry is still capable of.

Drop me a line and let me know any issues you are having as I want to use my time as president and this column to address what's happening in our industry across the world. I'm at [Juliewhite@d-drill.co.uk](mailto:Juliewhite@d-drill.co.uk)

Julie White, President of IACDS





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## Words from the EDA President

# Towards a Common EU Demolition Waste Management Protocol

Based on volume, Construction and Demolition (C&D) is the largest source for waste stream in the EU – about one third of all waste produced. Proper recycling and treatment of C&D waste can have major impacts and benefits in terms of sustainability, when compared to waste disposal.

EU and national policy makers have already put in place a strong and effective policy framework to promote optimal waste management in the sector. However more can be done to give a second life to C&D waste through meaningful applications.

The “Roadmap to a Resource Efficient Europe” (COM (2011) 571) sets out the importance of renovating and constructing buildings with greater resource efficiency. The recent “Communication on Resource Efficiency in the Building Sector” (COM (2014) 445) acknowledges the fact that a large majority of C&D waste is recyclable.

However, the scope of the opportunity does not stop there. After processing, recycled C&D waste materials need to find their way to the secondary materials market, where they need to compete with natural materials for their integration into new construction products or other applications.

This is where a lot of opportunity for better applications for processed C&D waste is still lost. One of the largest problems is that the perceived quality of C&D waste is often low. Thus the lack of confidence in the performance of recycled products prevents upcycling and their use in higher grade applications.

A great opportunity for improving the uptake of recycled C&D waste requires increasing confidence in the quality of recovered C&D waste, leading to better functioning markets and a better chance for recovered materials to compete with natural materials.

But markets can only function if recycled products have the high quality and given the confidence they deserve.

For this purpose the European Commission has started the preparation of a Common EU Construction & Demolition Waste Management Protocol.

The Protocol will develop a common set of technical, environmental and managerial principles, which are applicable in the entire EU and based on the highest

common standards in each stage of the waste management chain that would be recognized in all Member States.

This Protocol will provide also common language for industry and policy makers in the EU and facilitate the adoption of sound C&D waste management across the EU.

The demolition industry is actively involved on the preparation of the Protocol, with several members of EDA taking part on the meetings and working groups.

If you are interested in getting involved or have some 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.

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



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



## THANK YOU DANIEL AND ANNA!

PDi 2-2015, released about a month ago was quite a packed issue. We published a story about the most recent IACDS meeting that was held in Paris in April. Quite a number of changes happened at that meeting. The association got its first female president in Julie White and the secretariat was shifted with José Blanco as new secretary. Daniel Trachsel left as secretary after 16 years of hard work with and for the associa-

tion and he has been with the associations since it was instituted. But important to mention that his right hand during all these years working with the associations has been his wife Anna. From the entire international concrete sawing and drilling community we would like to direct our deepest gratitude and thanks to all the hard work Daniel and Anna has carried out for IACDS during the years.

## Brokk strengthens its presence in Belgium

The Swedish manufacturer of remotely controlled demolition machines, Brokk, has strengthened its presence in Belgium by establishing a new subsidiary, Brokk Belgium. Brokk has worked with Atlas Copco for many years as a partner for sales and distribution in Belgium, but has now decided to make a long-term investment in the Belgian market with its own dedicated staff.

“We have had a long and successful partnership in Belgium with Atlas Copco. Now it is time for us to take the next logical step to further develop the market,” said Brokk Group chief executive Martin Krupicka. “Strategically, this is an important investment for the market since we see a significant potential for Brokk in the Belgium market. Setting up our own organization is a testament to our long-term commitment to our customers in Belgium.”

Brokk has a long history in Belgium as the first machine was delivered in 1983.

Brokk Belgium, will operate as a branch of Brokk France SAS, and customers in Belgium will have the advantage to tap into the resources of this bigger organization. “We have already started contacting our existing and new customers in the Belgian market and we now look forward to working closely with them to help our customers take full advantage of the benefits Brokk machines can bring to their businesses,” said Brokk France/Belgium managing director Michel Sanz. “Atlas Copco Belgium will remain service partner for Brokk in Belgium. This means that Brokk customers can choose to use Atlas Copco for service or the service operation from Brokk Belgium.”

Brokk has appointed Joachim Van de Perre to the position of Brokk Belgium/Luxembourg sales manager. With background in the machinery and tool business and a large experience in the demolition industry, he will offer a high-level support to existing and new Brokk customers.

## New premises for French Hitachi dealer

One of Hitachi Construction Machinery Europe’s dealers Cobemat in the western part of France, has invested €2M in a new 15,000m<sup>2</sup> facility. It coincides with the company’s 20th anniversary and its 1,000th Hitachi sale, a ZX170W-5 wheeled excavator.

Based in Brittany, Cobemat is responsible for the distribution of Zaxis-5 excavators, ZW-5 wheel loaders and light compaction equipment in the regions of Brittany, Loire and Lower Normandy. The company relocated to its new premises at Servon-sur-Vilaine in January 2015. Positioned next to the main highway between Rennes and Paris, the site includes a new parts centre and 700m<sup>2</sup> workshop.

Cobemat has 42 employees at the new facility. “Servicing Hitachi machines in the highest standard of working conditions is a priority for us,” said Cobemat owner Xavier Beaulieu. “Our new technical facilities are not only first-rate, but the location and surroundings will also serve as a more pleasant environment for our customers to visit.”

“Cobemat is one of our largest and most celebrated dealers in France. We have developed a strong relationship over the past two decades, and the company’s excellent new facilities will help to ensure another period of success and close cooperation,” said HCME president and chief executive Moriaki Kadoya.



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## Metso's Lokomo celebrates 100 years

Metso's operation in Tampere, Finland, known locally as Lokomo, celebrated its centenary in May. Oy Lokomo started operating in Tampere in April 1915. Metso's Tampere facility is currently the company's most important centre for mobile crushing and screening equipment. The factory manufactures the bulk of Metso's mobile crushing plants.

"Lokomo's 100 year history is indicative of its ability to transform and be innovative and to remain at the cutting edge of technology over the course of a century. Throughout its history, Metso's Tampere unit has transformed and developed fresh innovations to meet the needs of the day. An excellent example of this is the unit's evolution into a globally significant crushing equipment competence centre for today's Metso," said Metso president and chief executive Matti Kähkönen.

## Joy acquires Montabert

In the US Joy Global has acquired Montabert in France, which has been a part of Doosan Holding France since 2007. Montabert will join the hard rock division of Joy Global.

With 153 locations in six continents, Joy Global offers equipment, systems and solutions for the mining of copper, coal, iron ore, oil sands, gold and other mineral resources. The business, listed on the New York stock exchange has almost 16,000 employees in 20 countries and generated sales of \$3.8bn (€3.34bn) in 2014.

The addition of Montabert rock breakers and drifters to Joy Global is a benefit for both companies. Montabert can continue to develop industry leading technologies and products with the support of Joy Global.

Joy intends to continue working with its suppliers under the same conditions as before and is sure that the introduction of Montabert will present new opportunities.

Joy said that the acquisition will strengthen the business objectives of Montabert and its own company, and will remain committed to supplying world-class products to its customers.

## TEREX/FINLAY's new director

Terex/Finlay has appointed Rik Kiddle as global business development and sales director. Kiddle will be responsible for strategically driving business growth, increasing market share as well as identifying and developing new market opportunities on a global basis. He will lead the current sales, marketing and distribution development teams, be a key driver in new product development initiatives and work closely with the aftermarket and engineering departments within Terex/Finlay. Kiddle joins from JCB where he was latterly responsible for developing the JCB Wastemaster product range for the waste, recycling and demolition industries.

# RESOURCE EFFICIENCY IN THE BUILDING SECTOR INDISPENSABLE

Resource efficiency targets were in the centre of attention at the Construction Material Recycling in Europe congress (EQAR) held on 8 May 2015 in Rotterdam, The Netherlands. EU Commission DG Environment representative Josefina Lindblom said in her report that the EU Commission pursues the aim to reduce the environmental impacts of buildings throughout their life cycles. For this aim European assessment tools and guidelines have to be developed and applied. Furthermore an increase in using recycled construction materials in the construction and maintenance of buildings is recommended. This will contribute to improving functioning of the market for recycling, construction and demolition wastes.

In further reports and papers from the member states it became apparent that the state and the general conditions for construction material recycling differ in the individual EU member states. This is also reflected in the discussions held in the European Standardiza-

tion Committee CEN/TC 351 'Construction Products – Assessment of Release of Dangerous Substances' where the test methods for the release of dangerous substances from granulates and the differing Dutch and German views complicated agreement on a uniform European column test. Nevertheless a European test standard for granulates shall be adopted this year.

EQAR vice president Guenter Gretzmacher from Austria emphasized the necessity of creating uniform general conditions for construction material recycling.

Though granulates are construction mass materials marketed regionally, traffic crossing internal EU borders is of high importance for implementing an internal European market for construction products. Gretzmacher demands uniform European targets for the end-of-waste and the product recognition of quality-assured recycled construction materials. EQAR may pay a contribution to it by its

European quality assurance system.

For the first time the EQAR Award was granted at the EQAR Congress. It was granted to the company Waermekombinat from Germany for innovative floor heat accumulators made of recycled bricks. In addition recognition prizes were awarded to CDE Global, Ireland, for an innovative wet processing system, to the company Prospect, Slovak Republic for making a contribution to high-quality construction material recycling and to the Institute of Architecture Technology of the Graz University of Technology, Austria and to Sto, Germany for the joint development of a recyclable heat insulation composite system based on velcro fasteners.

In his speech technical committee chairman Martin Car from Austria emphasized how difficult it was for the jury to take the decision as all prize-winners paid an outstanding contribution to further developing construction material recycling in Europe.



## Franklyn Jay Keeling

Franklyn Jay Keeling, the founder of Magnum Saws, passed away on 19 May at Kansas City Hospice House, Kansas, US. He was 71 years old. Born on 7 February 1944 in St. Petersburg, Florida, Frank Keeling settled in Upstate New York and grew up and graduated from high school in Gorham, New York in 1962.

Frank, who married his high school sweetheart, Judy Bigham, in 1964, attended several different universities and worked at several companies including Eastman Kodak and Brede Tool in Rochester, New York.

In 1983, Frank co-founded Magnum Diamond and Machinery. He owned and built the company with his two sons until it was sold to Electrolux in 2000. Magnum was merged with Demus USA where Frank served as president until 2002.

Frank then started Precision Tractor with his sons Pat and Jeff and continued with the company until 2008, when he retired. Both sons have followed in his footsteps in construction, sales and share his love of the industry.

Frank was a loved and respected man in business and by his friends and family. He influenced many lives with his work in the construction industry and with relationships with his family and friends. He has left his legacy and will be greatly missed.



## Strong first quarter for Wacker Neuson

The Wacker Neuson Group has reported a 43% rise in pretax, pre interest profit of €31.7M over the same period in 2014 on revenue up 11% to €324.3M from €291.6. "We have continued to implement our strategies and they have proved effective even though, from a global perspective, markets are moving in different directions. Our strong market position, above all in Europe and North America, has enabled us to offset negative market developments in South America, Russia and Australia," said Wacker Neuson chief executive Cem Peksglam.

"We stand by our forecast of an overall revenue for the year of between €1.4bn and €1.45bn billion which would correspond to growth of between 9% and 13% relative to the previous year."

## UK construction brighter

The UK construction industry is expected to perform relatively well in the coming five years, expanding at an average annual rate of 4.2% in real terms. This marks a clear improvement from the average annual expansion of 0.5% recorded during 2010 to 2014, according to Timetric's Construction Intelligence Centre. The industry is expected to increase from US184.7bn (€163.6bn) in 2014 to US226.7bn (€200.7bn) in 2019, measured in real terms at 2010 US dollar exchange rates. Industry growth is expected to pick up over the period, in part owing to investments under the National Infrastructure Plan 2014. The UK's construction industry is now looking forward to a period of policy continuity following the Conservative Party's success in the general election in May 2015.

"Given its intention to persist with a general policy of austerity to consolidate its fiscal position, it is likely that many of the Conservative Party's costly investment pledges made ahead of the election, will be dropped," said Timetric lead economist Danny Richards.

Residential construction is the largest market in the construction industry, accounting for around 40% of its total value. The market is expected to maintain its share over the forecast period, supported by investment in residential projects due to the country's shortage of housing units. The government's initiatives, such as the 'Help to Buy' scheme and stamp duty changes, will further increase the demand for residential units over the forecast period. Commercial construction was the second and largest market, accounting for around 26% of the total construction industry value. Growth in this market is expected to be driven by increasing consumer spending and business investments, with growing demand for office space beyond London and the South East region.





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





## Caterpillar launches new excavator

Caterpillar's 336F L/LN XE excavator, which replaces the Cat336E L/LN H, features a Cat C9.3 ACERT engine that meets EU Stage IV emission standards. The new model delivers estimated fuel savings of up to 20% compared with the standard 336F L/LN and up to 25% compared with the previous standard 336E L/LN with no compromise in performance or added maintenance costs. The Cat336F L/LN XE comes equipped with the new integrated Caterpillar production measurement payload system, which enables operators to weigh loads on-the-go and deliver exact truck loads, while allowing managers to monitor productivity.



## Tyrolit cutting competition starts

Europe's top professional concrete cutters and drillers will face each other once again in the Tyrolit cutting pro competition. This is the only international wall sawing, core drilling and hand sawing competition in the world and it turns the practice of cutting and drilling concrete into a sports discipline, with the spotlight on both power and skill.

The competition is the only wall sawing, core drilling and hand sawing competition in the world. More than 700 competitors and fans from all over Europe came to Tyrol for the last final in 2014.

The athletes compete against each other in pairs and carry out a range of tasks involving wall saws, core drills and hand saws as quickly and precisely as possible. So far, over 70 competitors have taken part in the three qualifying rounds in April. The first, second and third places were rewarded with a cash prize and a Tyrolit voucher for the company the winners work for. In addition, the winners of the first and second places of the respective countries qualified for the 2017 finals:

### Switzerland:

- 1st. Defending champion Jan Läderach, from Läderach Betontrenntechnik.
- 2nd. Arlind Kernaja, from the company Arlind Kernaja
- 3rd. Stefan Wenger, Röhner.

### Austria :

- 1st. Jernej Ciglar, Dimas.
- 2nd. Martin Sponring, Ortner.
- 3rd. Daniel Wittke, The Cutting Crew

### Germany:

- 1st. Dominik Bernauer, BST.
- 2nd. Patrick Bauer, Gebrüder Baßler.
- 3rd. Peter Bierfeld, Bierfeld.

On 28 April competitors from the Czech Republic, Slovakia, Poland, Great Britain, Italy, Hungary and Russia contested for participation in the 2017 finals. The winners of the day of the international qualifying were:

- 1st. Michal Ventluka from Czech Republik, Dinaz.
- 2nd. Bohumil Družbík from Czech Republik, Dinaz.
- 3rd. Tomasz Cieslak from Poland, Base.

The qualifying sessions for Sweden, Norway, Denmark, Finland, the Benelux countries and France will take place in fall 2016.

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

## Diatom holds an "Open House Day"

On 18 June, Luxembourg-based manufacturer of diamond consumables Diatom held an "Open House Day" dedicated to surface preparation techniques. A distribution partner for SPE/Innovatech floor treatment machinery, Diatom presented to a group of assembled guests a wide range of SPE solutions, which included models of floor grinder, ride-on tile scrapper, scarifier and sand blaster. Also on display was a slurry filtration system from German manufacturer Lissmac. According to Diatom's man-

aging director Yann Maincion, slurry filtration systems are fast becoming a must-have item in contractors' arsenals due to increasingly stringent environmental regulations. Some 25 Diatom customers from France and Benelux attended the event. Even the drizzling rain could not disrupt the friendly atmosphere (enhanced by a bountiful supply of top-quality French wine) that surrounded the event from beginning to end.

[www.diatom.lu](http://www.diatom.lu)



## SOLO CUT OFF SAWS

Solo introduced a range of cut off saws in 2012 following seven years of research. The models 880 and 881 set new standards in ergonomic design, refined technical features and ease of maintenance that are claimed to be unique in this engine class. Available in 300mm and 350mm, the 880 and 881 models are powered by an 81cc Solo two-stroke 4kW engine. An automatic choke system enables easy starting and a one push stop system allows the operator to safely stop the saw. They are equipped with an anti-vibration system that employs five steel springs and rubber-coated handles to reduce user fatigue.

The 881 series utilizes the patented iLube engine with intelligent lubrication system, which eliminates the need for pre-mixed fuel. An electronically controlled pump adds the

correct quantity of 2-stroke oil, metered to suit the engine speed, to the fuel from a separate oil tank with a volume capacity of 0.32litres. There is no need to pre-mix fuel and oil and excludes any risk of incorrect fueling, which is a main cause for expensive engine damage. A full oil tank is sufficient for up to 20 fuel tank fillings.

If there is insufficient oil in the tank, the engine automatically switches to a fault mode that reduces the engine speed to just above idling. This will also prompt a change in the engine sound compared with normal operation and is the signal to replenish the oil tank. Instead of having to use expensive, pre-mixed two-stroke fuel, standard fuel and oil is used. The separate oil and fuel tanks re filled and the Solo intelligent engine lubrication system takes care of the fuel mix.



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## INDECO BREAKS THROUGH GREPPOLI TUNNEL

Indeco HP 7000 and HP 5000 hydraulic breakers were used for the excavation of a small tunnel being constructed alongside a road in Italy.

The 100m long Greppoli Tunnel between Grosseto and Siena in the section of road near Civitella Paganico on the E78 highway connects the Tyrrhenia coast with the Adriatic. Considering the geomechanical model, the short length of the tunnel, and the fact that in that particular segment the existing road to be upgraded ran nearly parallel to the new tunnel, blasting was discarded in favour of using hydraulic breakers. Selected to perform the works were Indeco HP 7000 and HP 5000 breakers utilized by contractor Strabag,

in the Nuova F.A.R.M.A. Scarl Consortium assigned to perform the works.

Geognostic surveys indicated the rock in the tunnelling area was primarily characterized as cavernous limestone with medium-poor mechanical characteristics. There was discontinuity and marked fracturing of the rock mass in places which required short-term reinforcement of the stable face using injected fibreglass tubes and sub horizontal reinforcement elements. The work to reinforce the face had an impact on project completion time, but was necessary in order to guarantee medium-term stability, which was put at risk due to the characteristics of the rock mass.

The area of the excavated face varied from 136m<sup>2</sup> to 143m<sup>2</sup>. Initially, due to the hardness and density of the rock, excavation output was low and chisel wear was higher than average. However, by using Cobra chisels and on reaching the more fractured material, output stabilized at an average excavation rate of approximately 14m<sup>3</sup>/h corresponding to an average advance rate of 2m/day, considering the time required for the pre-shotcrete and first-phase lining of shotcrete, rib assembly and installation. The invert was constructed using the breakers. Works started in early November 2013 and were completed in early March 2014.



## BLUEMAC MRF FOR MURRAY BROWNS

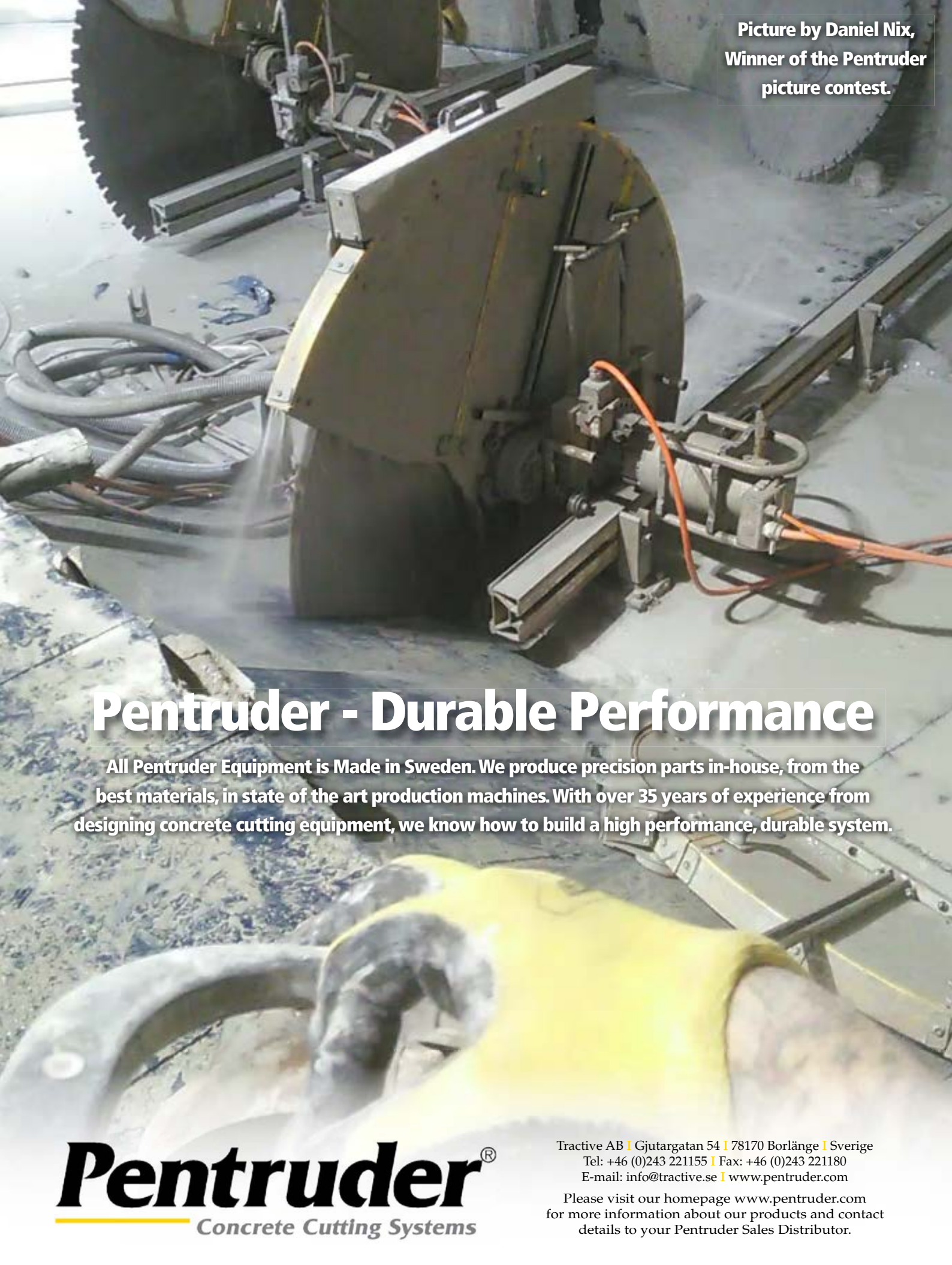
In the UK the waste recycling and management contractor Murray Browns, based in Flixton, North Yorkshire, asked BlueMAC to come up with a solution for a new bespoke materials recycling facility system. The ever increasing volumes of commercial and construction and demolition waste materials that are being recycled required a new recycling plant to replace their old small recycling plant. Blue Machinery Central teamed up with sister company BlueMAC to provide the answer. "We'd been to see some of the first BlueMAC MRFs operating in London and were extremely impressed by the design, build quality and performance," said Murray Browns joint owner James Brown. "What we saw and heard from the owners of the plants convinced us that a BlueMAC system was the best option and, of course, our long relationship with Blue Machinery Central made the choice that much easier. We are also aware of Blue's industry leading after-sales service and spares back-up and this too was another positive influence on our decision making process."

The BlueMAC MRF at the Murray Browns premises has been designed and tailor-made not only to produce the required specific clean saleable recyclables. Material flow is continuous throughout the working day, with the incoming C&D and commercial waste being conveyed and processed through a series of compatible, linked machines, including two bespoke picking stations and a fines clean-up line.

A feed hopper receives the incoming waste with an incline conveyor feeding the prime screening trommel, which separates to 50mm. The resulting fines are collected beneath the trommel drum and then conveyed to an IFE flip flow screener, which is preceded by an overband magnet to extract ferrous metals. The flip flow screener produces smaller fines to 10mm with any oversize material passing on to a General Kinematics de-stoner. The residual heavy material is collected from this process and conveyed to a single bay picking station for manual separation and selection, which removes required materials by a chute to a concrete storage bay below. Oversize material from the trommel is conveyed to a second six bay picking station, where recyclable materials such as wood, plastics, cardboard, paper are sorted. The picked material is then conveyed through an overband magnet for ferrous removal to a blower that separates the lights from the heavies with the residual material being stockpiled in a bay at the end of the plant.

Murray Browns is processing in the region of 18t/h of C&D waste through their new BlueMAC materials recycling facility and the plant has been designed with capacity to spare as the volumes are destined to increase in the coming years. Murray Browns estimates that in excess of 90% is being recycled and aims for further improvement.





Picture by Daniel Nix,  
Winner of the Pentruder  
picture contest.

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# KOMATSU'S TWO NEW hydraulic excavators

Komatsu Europe International has added two new hydraulic excavators to the European market, the PC290LC/NLC-11 and PC210/LC-11. Both are equipped with a EU Stage IV Komatsu engine, improving fuel efficiency, an upgraded cab and enhanced safety and serviceability. The PC290LC/NLC-11 has a 159kW Komatsu engine and operating weights of 29.85t to

30.95t, while the smaller PC210/LC-11 has a 123kW Komatsu engine and operating weight ranging from 22.1t to 23.58t.

"These new excavators do so much more than simply meet EU Stage IV emission regulations. They offer significant advances in fuel consumption, provide 3G communications, improve operator comfort and include new safety features," said

Komatsu Europe International Product Manager Vince Porteous.

Komatsu's new EU Stage IV engine in both excavators integrates SCR to further reduce NOx emissions using the AdBlue additive. With an advanced electronic control system that manages the airflow rate, fuel injection, and combustion parameters and after treatment functions, the Komatsu EU Stage IV engine optimises performance, reduces emissions, and provides advanced diagnostic capability. Customers will benefit from lower fuel consumption with no loss of performance. Komatsu continues to use a variable geometry turbocharger) and an exhaust gas recirculation valve for precise temperature and air management control and for longer component life.

To ensure product reliability and durability in demanding conditions, Komatsu developed the entire system, including the control software, which is critical to the effective operation of the after treatment system. This control system is also integrated into the machine's on-board diagnostics systems and in Komatsu's standard telematics system Komtrax.

Both models feature a heavy-duty undercarriage and maintain the same high lift capacity and lateral stability as the previous models. Operators can easily select Lift Mode to raise hydraulic pressure and increase lifting force by up to 7%.

Improvements have been made to the hydraulic systems for reduced hydraulic loss and better efficiency. All major components on the new excavators, including the engine, hydraulic pumps, motors and valves are designed and produced by Komatsu. This integrated design uses a closed centre load sensing hydraulic system with variable speed matching technology. This allows the engine speed to adjust based on the hydraulic pump output for light and heavy-duty applications.

Both are equipped with Komatsu's equipment management monitoring system, which continuously monitors all critical systems, preventative maintenance, and provides troubleshooting assistance to minimise diagnosis and repair time. They also have the latest Komtrax remote monitoring technology with data access through the web or Komtrax mobile on a smart phone.

All Komatsu EU Stage IV machines come with the Komatsu Care maintenance programme. For the first three years or 2,000h it covers factory-scheduled maintenance, performed by Komatsu technicians with Komatsu genuine parts.



## Australian supplier Traxx Diamond Tools is now representing SBB Fidan

"We are delighted to represent Adnan Fidan and the K50 range of products, in Australia and New Zealand. Traxx specializes in the supply of specialty and Innovative tools for the Concrete Sawing and Drilling industry, and Demolition and the K50 products fit right in to that slot. Frankly, we have not been able to keep up with

demand since release just 8 weeks ago," said Lloyd Williams, TRAXX MD.

A full range of products are offered by Traxx, including the WSR slurry rings, Screw in anchors, Slurry separators and all tools for anchoring and lifting."

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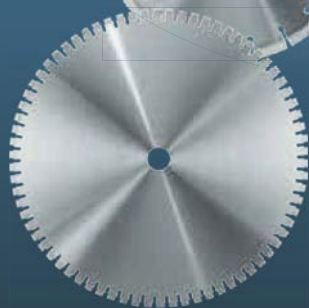
Bridge Saw



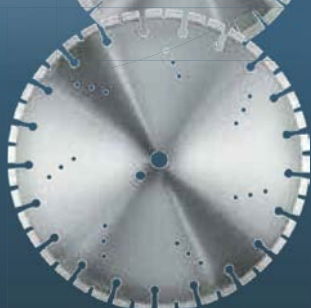
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# Mini and compact excavators **ARE ON A ROLL**

***For a product category that's at the small end of the equipment scale, mini and compact excavators have been making big headlines over the last several months. PDi's Jim Parsons reports.***

One reason is the achievement of regulatory-mandated emissions improvements in the machines' motors that, thanks to some innovative engineering, have had minimal effect on performance and fuel consumptions. If anything, these mighty midgets work better than ever, providing contractors with the performance, versatility, and reliability they crave for jobs small and not-so-small.

And as illustrated in the examples below, the new and upgraded models are also easier and more comfortable to operate, easing the exertion of operators who may have to spend many hours in the cab. Better that they concentrate on the job at hand rather than the pain in their backside or inconveniently located controls.

Indeed, with so many features available in today's mini and compact excavators, just having them available in a contractor's equipment inventory is enough to bring smiles to the faces of everyone—owners, operators, and mechanics. And after proving themselves on the jobsite, the contractor's bottom line will likely look a lot better too.

## **Volvo EC20D compact excavator packs a mighty punch**

The new EC20D D-Series compact excavator from Volvo Construction Equipment (Volvo CE) features a Volvo D0.9A Tier 4 Final engine that is 10 percent more fuel efficient when equipped with the auto engine shutdown option. This option also provides better resale value for the machine through lower hours and longer service intervals. A new automatic idling system further reduces fuel consumption and noise disturbance by switching

engine speed to idle if the controls are inactive for more than five seconds.

The EC20D offers the roomiest cab in its class, with no extra auxiliary floor pedals, excellent all-around visibility, and intuitive controls for unparalleled operator comfort and productivity. The cab is safe and easy to access via a wide door with three contact points, or when fitted with a canopy, using a large handrail. With superior noise and vibration insulation, the EC20D keeps the operator comfortable throughout the day.

All controls are ergonomically placed, and the large travel pedals allow the operator to easily manoeuvre the machine in tight spaces. The fingertip roller offers precise boom offset and convenient attachment use. To achieve maximum efficiency, a high-speed travel switch is located on the dozer blade lever for fast backfilling, while a single-acting auxiliary button on the front of the right joystick ensures easy hydraulic breaker operation.



## **New John Deere 17G & 26G compact excavators make a sizable jobsite impact**

John Deere continues to upgrade its G-Series excavator line-up with the introduction of the 17G and 26G compact excavators. These machines offer a Final Tier 4 compliant engine without the need for an after treatment device, a spacious cab, and smooth, responsive hydraulic controls. The nimble excavators were designed with the rental, commercial/residential building, landscaping, underground, and site development industries in mind.

The 17G and 26G incorporate a 10.8kW and 4.9kW Final Tier 4/ EU Stage IV diesel engine without the complexity of an aftertreatment system. This means the customer has no DOC and no DPF, and thus no requirement for DEF. The noticeably quiet engines allow contractors to work at any place, at any time. The 26G utilizes the same operator's station as its 35G brethren (open station or cab with heat only). The hinge portion of the door design was simplified to provide better visibility. Additionally, the door width was increased to allow for easier entry and exit from the cab, which also has a larger front window.







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### Tier 4-compliant Bobcat E32 and E35 excavators boast new features

Bobcat Company has released two new Tier 4-compliant compact excavators, the E32 and E35, both of which include a non-DPF (diesel particulate filter) engine solution. The new Bobcat® excavators feature a forward-mount instrumentation system that provides operators the same functions, aesthetics and visibility as instrumentation available in Bobcat loaders. The 25kW engines provide unmatched power, excelling in a variety of high load conditions — due to class leading multi-function cycle times.

The E32 conventional tail swing excavator and the E35 Zero Tail Swing model can perform well in

tight spaces and under high load conditions — with sustained multi-function cycle times — and sustained travel speeds during pushing and climbing functions. Additionally, these 3t to 4t M-Series excavators provide increased fuel efficiency to reduce operating costs when operating in the machine's Eco-Mode setting.

Another new feature of the new Tier 4 excavators is cold weather protection. Anytime the engine temperature is too low, the excavator will temporarily limit the maximum engine speed (rpm) to prevent premature component wear or failure. Engine idle speed is also raised slightly to help the engine reach its operating temperature faster. As soon as the engine warms up to a predetermined temperature, the protection mechanism will deactivate.



### Terex TC16 and TC29 excavators increase productivity, profitability

The new Terex® TC16 and TC29 compact excavators are designed to enhance jobsite productivity, efficiency and cost-effectiveness, while allowing operators to work with precision and power. These models offer many of the same popular features as the predecessor models, such as the adjustable Knickmatik® boom system and Terex Fingertip controls, with enhanced capacities of their Tier 4 Final Mitsubishi® diesel engines. The productive horsepower and improved fuel efficiency with electronic governance of the new Terex TC16 and TC29 compact excavators allow operators to dig deep, reach far and lift heavy loads at a low cost of operation, increasing return-on-investment.

Compact and reliable, these Terex compact excavators are able to tackle a wide range of jobs, from trenching and excavating to ground levelling, backfilling, grading and contouring and loading/unloading. Weighing in at 1,724kg, the TC16 compact excavator offers a dig depth of 2.2m and a maximum reach of 3.9m. Weighing in at 2,926kg, the TC29 compact excavator achieves a maximum dig depth of 3m and a maximum reach of 5m. These Terex compact excavators come equipped with broad rubber tracks that provide excellent traction and low ground pressure. The tread pattern is designed to provide a large surface area for exceptional ground contact and to improve ride comfort.



### Yanmar introduces ViO25-6 mini excavators to North America

Yanmar Construction Equipment Co., Ltd. is proud to present the latest line up of its popular ViO25-6 mini excavators featuring improvements in comfort, reliability and safety. These new excavators replace the ViO27. In terms of comfort and ease of operation, the new excavators feature flat step and floor mats as well as automatic room lights that activate when the cabin door is open. A large LED back-lit monitor displays useful operation information.

These new models are more efficient and cost-effective when it comes to transporting them. They weigh 2,500kg with the canopy; 2,660kg with the cabin. This allows them to be safely transported with the rubber crawler tracks and aluminium loading ramps on 3-ton class trucks.

In a continuation of designing equipment to be safe for operators, the ViO25-6 mini excavators follow major safety standards, including TOPS (tip-over protective structures) and Headguard safety standards in the two-post canopy, and the ROPS (roll-over protective structures) and FOPS (falling object protective structures) safety standards in the four-post canopy and cabin. The new excavators are also equipped with





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***Atlas Copco***



Yanmar's "SmartAssist Remote," which allows for machine settings, including limits on boom height and arm retraction, to be managed over the internet.

### Wacker Neuson expands its compact excavator series with EZ 17

Wacker Neuson has introduced a new 1.7t compact excavator that delivers excellent power and manoeuvrability. The EZ 17 is the smallest zero tail model by Wacker Neuson and combines a compact foot print, expandable undercarriage and 2-speed drive. The new EZ 17 provides maximum manoeuvrability and accessibility. Wacker Neuson's EZ 17 is a productive and versatile digging machine offering a maximum digging depth of 2,469mm, and a strong bucket breakout force of 18,700N. This new excavator can access hard to reach areas, such as backyard landscaping applications. The expandable undercarriage is adjustable from 990mm to 1,251mm to travel through narrow passages and gates. Once the machine is in working position, the undercarriage can expand to provide additional stability and lifting capacity. Additionally, low ground pressure protects existing landscaping and turf from being disturbed.

The EZ 17 is powered by a Tier 4 Final, 12.8kW Yanmar diesel engine that offers excellent power, fuel economy and quiet operation. The 2-speed drive on this zero tail excavator allows the machine to travel up to 4.6kph. The machine also features a LUDV load-sensing hydraulic system for smoother operation and improved performance when using multiple functions. This advanced system deliver can deliver full power even with fine movements and it's also more efficient.

### Hitachi's new mini excavators

Hitachi Construction Machinery (Europe) used Inter-mat to introduce the new ZX17U-5, ZX19U-5, and ZX26U-5 mini excavators. Designed to be user-friendly, offering high levels of performance, comfort, and durability, the Zaxis-5 models can be easily transported between sites on a trailer. They are ideal for working in narrow or confined spaces and are suitable for utilities, foundation work, landscaping and indoor demolition or construction projects.

The ZX17U-5, ZX19U-5 and ZX26U-5 are more productive than other brands of mini excavators of this size with better fuel consumption. Research shows that the cycle time is quicker and workload is greater than previous models. Due to greater hydraulic efficiency, the new Hitachi mini excavators are also capable of higher levels of productivity than previous Zaxis models, using the same amount of fuel.

### Mustang 250Z offers impressive dig depth and reach

The all-new Mustang 250Z compact excavator brings 203mm deeper dig depth and 211mm additional reach at ground level compared with the previous model, the 270Z. The new 250Z is equipped with a 15.2 kW electronically-controlled Yanmar Tier IV emissions-certified diesel engine. No engine regeneration is required on the 250Z, reducing downtime on the jobsite. Low exhaust position on the machine reduces noise, increases safety and improves visibility. Cold-weather starting is easy with an electric glow plug starting aid, reducing the need for block heaters or starting fluid.

The operator's station on the 250Z is built for optimal productivity and controllability. Joystick controls, operated by simple wrist movements, reduce fatigue during a long work day. The controls on the 250Z include a proportional auxiliary hydraulic rocker switch with detent on the joystick. This allows the operator to adjust the hydraulic flow for precise attachment performance while keeping his/her hands on the joysticks. The operator can easily select standard ISO or an optional backhoe control pattern with a turn of a mechanical lever. The two-position, high speed travel switch is conveniently integrated in the blade control lever for easy accessibility.

A digital operator interface features an hour meter and clock, recordable maintenance history with adjustable time intervals and reminders, fluid levels, fluid temperature, and more. Machine hours can be reviewed for the past 90 days without starting the engine. Multiple language selections are also available. The operator's compartment is designed with comfort in mind. A four-way adjustable seat offers custom height, weight and backrest positions with a retractable belt. Elevated,

folding travel pedals allow for additional foot room when performing stationary work. An optional cab enclosure with heat provides comfort and protection in extreme weather conditions.

### Caterpillar launches 313F L GC excavator

The new Cat313F L GC hydraulic excavator is designed for performance at a low cost/h. It has a Cat C3.4B engine that meets US EPA Tier 4 Final/EU Stage IIIB emission standards that is light on fuel with no need for diesel exhaust fluid. It has a single pump hydraulic system, and comes equipped with a long undercarriage, a full size Roll Over Protective Structure cab, and easy-to-reach service points.

The 313F L GC has a 52kW engine and a choice of high power and economy modes to manage fuel consumption. There is also an engine idle shutdown feature that stops the engine after a pre-set idling interval.

The machine's simple hydraulic system delivers ample power for digging, lifting, and attachment use. The load sensing pump and main control valve calculate work demands to deliver the stick and bucket force needed. The 313F L GC can also be equipped with high- and medium-pressure hydraulic circuits along with a quick coupler to handle a range of Cat buckets and work tools.

### In the U.S., a new 6-in-1 Blade for Kubota's compact excavator

The new Hydraulic 6-in-1 Blade for the KX040-4 Compact Excavator makes levelling and backfilling—even on inclines and uneven terrain—incredibly easy. Operators will benefit from improved efficiency and greater productivity.

The blade's capacity has increased almost .57m<sup>3</sup> over the standard blade, and now enables six different positions: left-end up, right-end up, left-end forward, right-end forward, raised, and lowered. Just by moving the dozer lever, operators can angle the blade right or left to push soil aside while the machine moves forward, eliminating the need for repetitive right-angle positioning while backfilling trenches. The operator can command all six functions simultaneously for more convenient landscaping, shaping and backfilling control.





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## TEREX OPTS FOR DEUTZ

The German engine manufacturer Deutz will supply construction equipment manufacturer Terex with its TCD 3.6 High Torque engine for use in the Terex TLB840R backhoe loader. For the TLB840R Terex had been looking to install a powerful, durable and reliable engine which would also offer efficient fuel consumption.

To cope with the limited installation space available in the backhoe loader, Deutz developed a special solution by combining the slim agricultural machinery variant of the TCD 3.6 with components from industrial applications. They also optimised the engine management and the relevant performance curves especially for use in the backhoe loader.

As a result, the engine provides 390Nm of torque while the power of 55.4kW engine stays constant across the speed range of 1,500revs/min to 2,200revs/min. As the engine is below the relevant legal power threshold of 56kW it does not need a selective catalytic reduction system. The engine uses an open diesel oxidising catalytic converter for exhaust after treatment. This characteristic is particularly valued by equipment rental companies which represent the biggest customer group for this product.



## ATLAS COPCO EXPANDS CONTAINERIZED GENERATOR LINE

Atlas Copco has extended its QEC containerized generator line with the addition of the four new models QEC 800, QEC 950, QEC 1000 and QEC 1200. The expanded QEC range, including two dedicated models for the US and Canada, has been designed for multi-drop, prime power and standby applications for the rental, mining and oil and gas industries.

The QEC 800, QEC 1000 and QEC 1250 are available for the global market as 50/60Hz switchable units and the QEC 950 and QEC 1200 are dedicated 60Hz, EPA Tier 2 certified for the US and Canada.

Customers can tailor the QEC to individual key requirements and all models come in a standard ISO CSC container to facilitate transportation.

The QEC range comes with service intervals of 500h, easy removal of the aggregate engine-alternator, large access

panels, a mechanical cooling system and several service tools. Additional maintenance features include heavy-duty dual stage fuel and air filtration, a dedicated door for easy cleaning of the engine coolers and directly accessible power cable connections.

The optional Qc4003 controller can put two or more QEC models in parallel for loads that exceed the output capability of a single generator set. This power management system can also be used to provide continuous power when one of the generators needs to be shut down for scheduled maintenance or repair.

"Our oil and gas, mining and rental customers asked for containerized predictable power for large loads," said Atlas Copco Portable Energy product marketing manager Julio Tome. "With up to 1MW of power, the QEC meets their key needs of a flexible configuration and output, extreme reliability and high performance in an easy-to-transport container."

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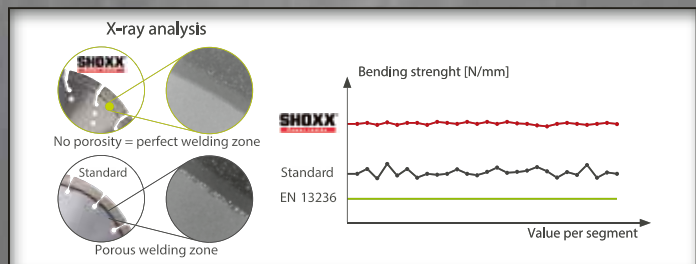
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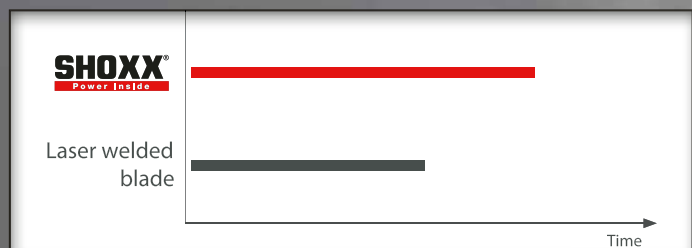


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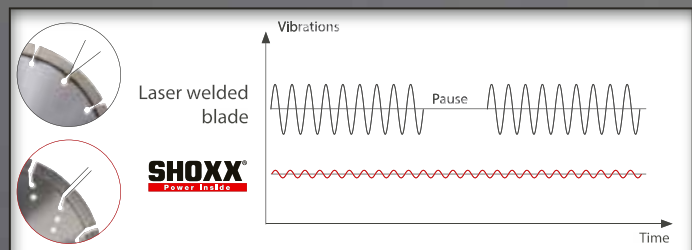
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From left Peter Kling, Production Manager in Jönköping, Hans Lück, head of the Swedish sales company and Per Hellström, Area Manager North Europe, Italy and Belgium.



# HEART OF THE HUSQV

***Husqvarna Construction Products, a giant in equipment for concrete cutting, demolition, concrete floor grinding, dust extraction and diamond tools with manufacturing facilities on three continents. Long ago the concrete sawing and drilling business started the factory in Jönköping. But the fact is that the Jönköping factory has continued to play a very important role in Husqvarna's manufacturing of diamond tools for the Heavy User sector and is also the headquarters for the Swedish sales company.***

Many types of products bear the trademark Husqvarna, the company founded more than 325 years ago. For our industry the thoughts mainly go to Husqvarna Construction Products, equipment for drilling, demolition and construction work, grinding and polishing of concrete floors, as well as a wide range of diamond tools. The product development is rapid, the marketing powerful, and the organization is maybe the largest in

the industry. What makes the manufacturer unique is that a large part of the profit is plowed back into new development projects and comes back to benefit the industry.

**Individual character who  
chiselled out in the 1970s**

But where's the heart of the Husqvarna? That question

can today be answered in more than one way. Europe is the home market for Husqvarna with plants in Belgium and Sweden. The US market is today the biggest for the company group, and several plants are located there. China and Asia as a whole are strongly picking up, and Husqvarna has today two strong production facilities there that serve not only the rest of the world, but also the Chinese construction industry to a big extent. The Xiamen plant was covered in PDi a couple of years ago.

PDi Magazine, which is owned by a Swedish publishing house with several construction titles, has followed the Husqvarna Construction Products development since the early 1990s and knows that everything started in the small city of Jönköping in the early 1970s. At that time the company was called Dimas. The mother company Husqvarna AB was, on the other hand, founded in the city of Huskvarna just about 10 km away from the old Dimas premises. Husqvarna Construction Products' global headquarters and centre for product development of machines is located in Jönköping, just outside Gothenburg. The main seat of the development of diamond tools is located in Ath, Belgium.





Husqvarna's new chain saw, the K 650 Chain.

Products. The name of the companies acquired became product names to be replaced later on for the name Husqvarna on everything. The operations in Jönköping and Jonsered became part of a much larger context.

But how important is actually the Husqvarna factory in Jönköping today? It has retained its distinctiveness, one that was chiselled out in the mid-1970s. Operations in Jönköping started on a small scale in 1977 in the same location it occupies today. But not much is the same from the time when the company was called Dimas. The facility is now built to nearly 90% consisting in production areas and offices in two floors.

Production in Jönköping utilizes the factory premises to the maximum. Today, there is not much room to grow for the 60 people working at the factory. The Husqvarna sales company for Sweden is also located at the Jönköping premises, and headed by Hans Lück. The interview for this article also included Area Manager North Europe, Belgium and Italy Per Hellström, and Jönköping Production Manager Peter Klint.

#### "Tailor-made in large batches"

"We may not talk so much about it but the fact is that the production in Jönköping is an important hub in the entire Husqvarna machinery," says Klint. "The production in Jönköping is the main factory for the whole so-called 'heavy users-range' in Europe. We deliver mainly throughout Europe but export largely to Husqvarna offices around the world."

It's important to note that diamond tools are manufactured exclusively in Jönköping, though some product development is carried out such as the production of some prototypes.

"Our strength in Jönköping has always been our short decision paths, flat organization and thus fast footwork," Lück says. "In particular to the Nordic market, we can quickly customize products in short or long runs for our customers and ensure minimal delivery times but at the same time produce large amounts of standard tools when the need is."

Klint adds that Husqvarna's approach to production aids in customizing and adapting products to a particular task.

"We follow our own developed production system called HOS - Husqvarna Operation System that is connected to the LEAN model," he says. "Our approach attracts both individual customers but also entire regions benefit from it."

HOS permeates all operations within Husqvarna Construction Products and covers all the company's factories and sales companies. The system was implemented in 2010 and all staff undergoes continuous internal training regarding the system, which is coordi-



Diamond tools manufactured in Jönköping.

nated by one person per plant. The beauty of the system when using it constantly is that one can quickly detect a problem and fix it or find solutions and improvements.

The diamond tools produced in Jönköping are stored in a central warehouse nearby, as well as in Metz, France, and Ostrava in the Czech Republic so that they can be quickly delivered to the customers. The production set-up is based on the manufacture of pace after incoming orders and the lead time is between 0 and 5 days.

That the production is based after the order intake does not mean Husqvarna does not carry a stock on certain products. There are always tools in stock, but the balance is kept as low as possible. Thanks to modern machines, optimal work flow and the rapid general pace in the manufacturing, it takes very short time to produce a large quantity of tools. Production is divided into wet cutting blades for wall and floor sawing in diameters from 500 to 2000mm, and laser welded dry cutting blades for handheld machines with diameters from 300 to 500 mm.



Peter Klint (left) presents the magical diamond pellets used in the manufacture of Diagrrip segments. Others in the picture are Hans Lück and Markus Andersson, Husqvarnas cold pressing department.



Soldering drill.

# VARNA

This article though is mainly aimed to present the operations in Jönköping and how production has developed there. One must remember that Husqvarna Construction Products is a gigantic company with many branches, and it requires a lot of page space to give justice to all units within the company.

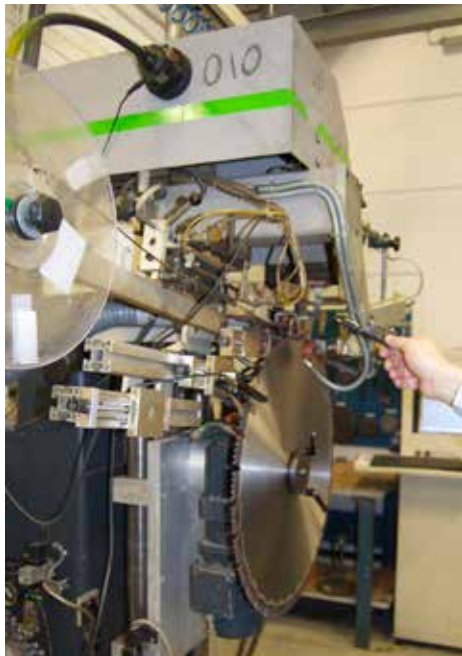
Today's Husqvarna Construction Products was intended to build up around the companies Partner and Dimas. But the company group grew dramatically when a number of large manufacturers were acquired—Target, Magnum Diamond Tools, Cushion Cut, and Diamond Board.

But all that began when Partner Powercutters, manufactured in Jonsered, needed a manufacturer of diamond tools for their machines. Dimas in Jönköping was the perfect fit and was acquired in 1987. But with the purchase of Dimas came so much more than diamond tools. During the 1990s and into the 2000s, major changes took place within the group.

Powerful acquisitions were made in both the US and Europe. The group changed its name from Electrolux Construction Products to Husqvarna Construction



Diagrip series from Husqvarna.



Brazing segment.

The plant also manufactures core drill in diameters between 6 and 2000mm, and lengths from 100 to 6000 mm. In addition more than 2 million diamond segments in 300 different variants are manufactured per year.

In Jönköping, the well-known Diagrip range is produced that is sort of Husqvarna's response to positioned diamonds in the segment to increase harvesting and longevity. But it is not directly a question of positioning of the diamonds. Diagrip is a completely different diamond tool science developed in Ath. How it is made is of course a secret but one can say that the segment is built up with pellets made of diamonds and bonding agent. According to Klint the Diagrip principle offers an incredibly powerful segment with unsurpassed cutting capacity. PDi could visit the secret room where Diagrip pellets are manufactured, but taking photos was of course out of the question.

Otherwise, the Jönköping facility is not unlike those of other manufacturers. The principles of the various production methods are the same, but the Jönköping fac-

tory manages to keep a very high production rate with a sustained and, often, elevated level of quality thanks to a variety of factors. AT system, mentioned earlier, is crucial in association with the use of modern machinery. A carefully designed and supervised production flow is complemented by frequent quality checks at every stage of manufacturing. On average, the facility runs double shifts, but sometimes increase to three shifts when order demand dictates.

### Strong position

In Sweden Husqvarna has a strong market lead, however intensively chased by Hilti, Tyrolit, and Pentruder. Pentruder does not produce diamond tools, but it is a very strong competitor on machines. Lück is very satisfied with Husqvarna's development and position on the Swedish market.

"We have experienced a long series of favourable years with increased sales," he says. "In 2014, we increased several per cent both on diamond tools and machines, and I expect a continued increase in the coming years. To me it suggests that we are doing absolutely the right thing and we will continue."

Although the countryside is important for Luck, it's the big cities like Stockholm, Gothenburg, and Malmö, which dominate with more than 60% of sales. Lück estimates that Husqvarna has between 30 to 35% market share on core drills and blades and about 50% market share on machines in Sweden.



Husqvarna's new remote-controlled floor grinding.

"But the competition is fierce so you can never relax," he adds.

Lück also claims that Husqvarna increased its market share in Sweden with the release of remote-controlled demolition robots.

"Brokk is a worthy opponent and completely dominated the Swedish market for many years," says Lück with a smile. "My assessment is that we have entered the market quite well with our robots. Soon we are greater than the Brokk in Sweden."

An important advantage in the work for the Husqvarna sales company in Sweden is the proximity to both product development and manufacturing.

"For us and especially our customers, it is strength to know that the products actually manufactured in Sweden and not in some distant country," Lück says. "Our diamond tools can also be tailored to the task as they are produced in Jönköping. I do not believe that all our clients are actually aware of that."



Peter Kling shows a torrkapklinga soon ready for delivery.



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New Vericut from Husqvarna.

#### Increases in other Nordic countries

Husqvarna is also on a strong path in the other Nordic countries according to Per Hellström.

"We are the market leader in both Norway and Denmark," he says. "In both countries, we have also strengthened sales force due to that our business has expanded. In Denmark, Anders Østergaard, was recently recruited to the CEO position."

The Norwegian sales company is located in Oslo and has two external service providers in Bergen and Trondheim. In Denmark, the head office is in Copenhagen, with service centres in both Zealand and Jutland. In Finland Husqvarna is one of the third largest players, according to Hellström. The subsidiary is located in Vaanta, outside Helsinki.

Diamond tools manufactured in Jönköping.



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# Pentruder Distributor Co

***PDi magazine had the opportunity to attend the Pentruder distributor council, held at Pentruder's head office and plant in Borlänge, Sweden, 8-9 June. This was a unique occasion for a trade magazine to actually attend a meeting where a manufacturer like Pentruder points out the direction for the company and its products for the future. However, there were confidential parts of the conference where PDi for obvious reasons were not allowed.***



The global Pentruder team gathering in Borlänge, Sweden.



The Romme Ski Centre lobby.

About 60 people representing 18 Pentruder distributors around the world attended the meeting. Participants came from Levanto in Sweden, Finland, Norway and Russia; Akutt in Norway; Terra Team in Finland; LDS Co Ltd. in Russia; Adamas in Benelux; Hydro-Tec in German-speaking countries; Diatom in France and Alfer in Spain and Portugal; Karot in Turkey; Syrox in Israel; DDE in South Africa; Industrade in India; Teesin in Singapore; Cutting Edge in Australia; Pentruder Japan; and ICS Blount covering North and South America. Distributors from China and the Czech Republic were not able to attend.

## Modern and jammed

The meeting started with a factory tour. The current Pen-

truder plant is only 10 years old, having been built in 2005. It was quite some years ago since PDi visited the facilities in Borlänge. The actual production building looks the same, but it has become quite a lot tighter between the many automated multi-operation CNC machines. This is really a high-tech production facility.

About 20 people operate the advanced machinery and another 15 carry out work with sales, marketing, and administration. The Tractive turnover for the mother company reached about SEK 80M during 2014. The production floor is quite jammed now, so there is not much room for increasing the production capacity on the existing facility. However, the technical lab and offices will soon be incorporated into two mezzanines that are about to be finished.



# Council Meets in Sweden



Modern and packed production facility.



Inventor and Tractive founder Anders Johnsen (centre) showing around in the production.



Part of the Tractive Pentrunder management from the right to left: Marie Peil, Anders Johnsen, Ingrid Johnsen, Kristoffer Johnsen and Ian Osborn.



Pentrunder's Financial Manager Ingrid Johnsen says that the plan is to extend the production during next year, and build a new section of some 2700 m<sup>2</sup>. The plot that Pentrunder has is quite generous, so there is room to grow.

## Issues high and low

The first day carried on with a company presentation and work sessions that led by a well-spoken and talkative Ian Osborne, who is the new Director of Business Development for Tractive. There were many items on the agenda on how to improve and increase Pentrunder's presence on the global market. The participants were divided in work groups for discussions.

After coffee breaks, the work groups continued and ended with discussions over best practices, and a number of job stories

around the world using Pentrunder products were presented. The first day ended with a dinner held in the same complex. Tractive had reserved the whole skiing resort Romme outside Borlänge for the participants, as the resort was closed for the season. Just outside the large windows a number of green slopes were building up. Romme is not exactly a big resort but one of the most popular in the mid- and southern part of Sweden, offering 28 ski runs with a fall height of about 300m.

The next day started with breakfast and continued with product presentations and more work sessions to generate as many proposals, recommendations and ideas about Pentrunder's products, way of marketing, service abilities, price levels, etc., as possible. The meeting carried on until 1 pm, followed by some hours of rally car riding and some social time. Anders







In front of the Tractive/  
Pentrunder premises.



A number of different workshops were held during the two conference days.

Johnsen, the founder of Tractive and Pentrunder, is a devoted rally car driver and very interested in designing gearboxes for rally cars. Several of the world's professional rally car drivers have Tractive gearboxes under the hood. The same gearbox thinking is used in Pentrunder's concrete cutting machines, and that is what makes them special.

#### Setting out the direction

This was the first distributor council for Pentrunder, to an extent where all distributors were gathered. It became a very important kick off for Pentrunder's continued work and all participants were very satisfied with the outcome. All sorts of discussions came up on the agenda during the two days, ranging from small detailed technical issues or questions about the colours of their machines to more far-reaching topics regarding the company's attitude, how it approaches the market, how Pentrunder communicates with their clients, questions about competitors, and competitions and how to

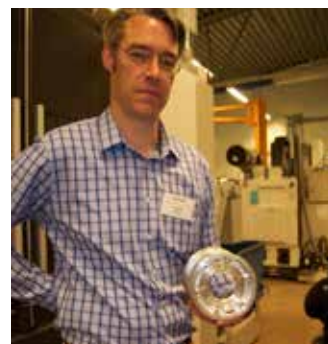
strive to become the most popular concrete sawing and drilling equipment supplier in the world.

The aim was set high and what else was expected. The meeting was breathing the same spirit of quality and technical awareness and perfection as the Pentrunder products always have.

When this was paired with Osborne's structured and efficient management of the meeting and his typical American "doer" attitude, it was quite obvious that this is the right mix for Pentrunder. The market has always expected efficient, high-quality, and user-friendly products from Pentrunder. But after this meeting in Borlänge, it can expect to see the beginning of a new attitude from Pentrunder, attractively packaged in a well thought-out marketing concept.

Additionally, there were also discussions about new and coming products to be launched on the market. But no details were of course given to snooping and investigative journalist.

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



Ian Osborn is showing a carefully processed detail from a wall saw, what make Pentrunder equipment so special.





## ROCKSTER R800/900 DUPLEX WITH A NEW SCREENING SYSTEM

The company Peyret Ferrer in the north east corner of Spain have there main focus in farming machinery rental and had many requests for crushing excess rocks, left on the fields as they were cleared for harvest. Peyret searched for a solution to process these boulders and bought a Duplex R800/R900 jaw/impactor crusher.

"First of all I didn't know what I can do with two different crushing units, one jaw and one impact crusher. But then I explored all the advantages of this flexible two-in-one solution and now I really appreciate it," said Peyret Ferrer chief executive José Peyret. "I am much more flexible and can reduce the abrasive boulders with

the jaw and then get the final cubic material, which can be used for high grade road surfaces." He expanded into contracting and was bidding on many jobs in his local area, crushing material for using as base material for new industrial warehouses.

Peyret Ferrer was very successful in processing and recycling as the demand for projects in fields of road maintenance, road building or demolition was growing. Due to high needs for fine grade product he decided to add a screening system to his crusher. Rockster did all the adaptations needed, so Peyret Ferrer can use the Duplex system with a new screen box RS83 and return belt RB75.

Peyret prefers using the jaw crusher and screening system for processing virgin stone and boulders. "It is not so common to process material with jaw and screen on one machine, but José Peyret is convinced of this combination and receives high quality final grain sized 0-40mm," said Rockster manager for Spain Perry Holt.

"My Rockster plant started as a simple crusher and now I have all the possible components for a full operating gravel yard. It's a primary crusher, secondary crusher and screen – all in one machine. I am more than satisfied with my investment," said Peyret.

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## Chicago Pneumatic outshines competition

Chicago Pneumatic Construction Equipment has supplied ten of its CPLT M10 lighting towers in South Africa to one of the country's leading opencast mining contractors Diesel Power Open Cast Mining. They are in use at one of its copper mining operations in Botswana and the order followed a day and night demonstration and evaluation of comparative lighting towers.

Chicago Pneumatic, represented by its distributor United Sales and Service, demonstrated the features, effectiveness and benefits of the CPLT M10. The night demonstration included Diesel Power independently measuring the lux results. The CPLT M10 outshone its rivals with 110lux at 50m, 21lux at 100m and 3lux at 150m. It was the only light tower to record lux measurements beyond 150m.

"Price is always an important factor when choosing any equipment, but the performance of the CPLT M10 light tower was just too good to turn down," said CP technical

director Steve Lambert. "Previously we always rented light towers, however we were convinced to purchase these 10 due to the flexibility it gives us to deploy them when and where they are needed and crucially the assurance that we are using high quality products."

All the CPLT M10 light towers are providing lighting in above ground work areas at night. During this deployment, Diesel Power has been ably supported by USS, whose team have been available to provide maintenance and repair services at short notice, as well as supplying any required spare parts. "We looked carefully at the light tower supplier and their aftermarket services, and I am pleased to say the support offered to date has been exemplary," said Lambert. "We have recently placed an order for some new upgraded CPLT M12 models which have impressive reliability enhancements while not losing its superior lumens output performance."



## Caterpillar's five new M Series wheeled loaders

Caterpillar has added five new M Series models to its range of wheeled loaders. These include three compact models Cat 906M, 907M and 908M, featuring Caterpillar's Z bar loader linkage, which combines digging power with parallel lift. All three have the same 55kW engine, operating weights of 5.6t to 6.5t and bucket capacities from 0.9m<sup>3</sup> to 1.1m<sup>3</sup>. The two larger models Cat 950M, weighing 19.8t and Cat 962M at 20.3t, also have a similar Z bar loader linkage with parallel lift and are equipped with 253kW and 273kW engines respectively. Bucket capacity ranges from 2.5m<sup>3</sup> to 9.9m<sup>3</sup> depending on material.

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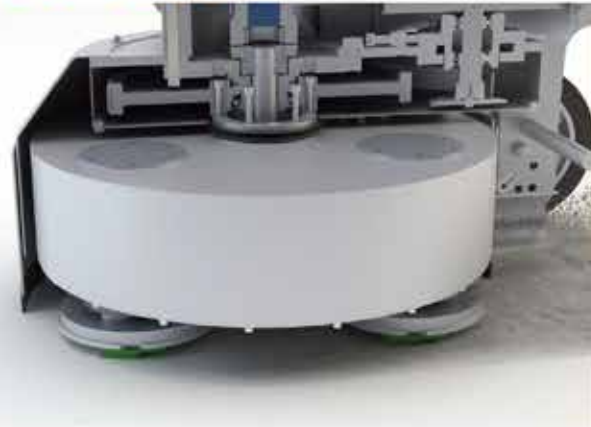


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## Hitachi's new mini excavators

Hitachi Construction Machinery (Europe) used Intermat to introduce the new ZX17U-5, ZX19U-5 and ZX26U-5 mini excavators. Designed to be user-friendly, offering high levels of performance, comfort and durability, the Zaxis-5 models can be easily transported between sites on a trailer. They are ideal for working in narrow or confined spaces and are suitable for utilities, foundation work, landscaping and indoor demolition or construction projects.

### Outstanding performance

The ZX17U-5, ZX19U-5 and ZX26U-5 are more productive than other brands of mini excavators of this size with better fuel consumption. Research shows that the cycle time is quicker and workload is greater than previous models. Due to greater hydraulic efficiency, the new Hitachi mini excavators are also capable of higher levels of productivity than previous Zaxis models, using the same amount of fuel.

The versatility of the new ZX17U-5 and ZX19U-5 is highlighted by the expandable crawler tracks. They can be retracted or widened, depending on job requirements, from 980mm, for working in small spaces or being loaded on to a truck, to 1,280mm for greater stability.

The extra piping and 1-2 way selector valve on the ZX26U-5 highlight the machine's versatility, allowing for the quick replacement of attachments. The ZX26U-5 also has the smallest front swing radius, at fully offset, in its class, making it ideal for working in narrow job sites.

Operator comfort was a key factor in the design of the cabin these excavators. It features a wide adjustable sliding suspension seat, which is surrounded by user-friendly controls within easy reach. Hydraulic pilot levers are used to operate the front, boom swing, travel and blade. Noise levels, even with the canopy design, are lower than previous Zaxis models and competitor machines, allowing operators to work more comfortably.

"The design of the new Zaxis-5 mini excavators is based on the concept of user-friendliness, so we believe they are ideal for first-time users of the machine, such as in the rental market, for example," said HCME product specialist Joep van den Maagdenberg. "The ZX17U-5, ZX19U-5 and ZX26U-5 will be invaluable additions to any fleet, thanks to their versatility for working on a variety of job sites with different attachments, and impressive comfort and easy maintenance features."

## Scan Dust 2900 from Scanmaskin



The new Scan Dust 2900 (SD 2900) dust collector from Scanmaskin is a great option for all of the company's smaller grinders, including the Scanmaskin 18; and the Scan Combiflex 330, 450, 450NS, 500i, and 500PD.

The SD 2900 is a versatile and efficient dust collector with high reliability and performance. The unique cylindrical design functions as a pre-separator, causing heavy particulates to separate from the fine dust. The heavy particles immediately drop into the bottom of the cyclone, bypassing the filters completely, increasing filter life and suction performance.

The SD 2900 is equipped with Jet-

Pulse, an efficient system that pulses the filters in order to keep them clean. The SD 2900 uses sock filters, which can easily be washed in order to prolong filter life. There is also a main filter option—a traditional cartridge filter that could be better when working on hardwood floors and similar surfaces. The main filter cassette can easily be changed to fit the cartridge filters. In addition, the SD 2900 is equipped with four HEPA 13 filters.

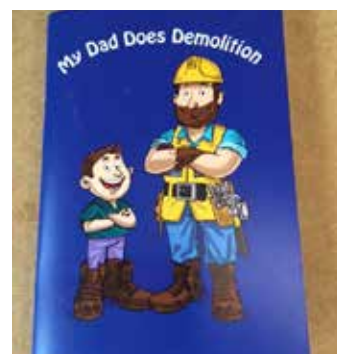
The SD 2900 also takes advantage of the Longopac bagging system, which makes managing dust very easy and efficient. With the Longopac system, all dust is collected in a single heavy-duty plastic bag, which can easily be disposed with minimal dust contact.

## MY DAD DOES DEMOLITION

The new book *My Dad Does Demolition*, written by Mark Anthony, founder of DemolitionNews.com and editor of the *Demolition* magazine, is the brainchild of former Institute of Demolition Engineers' president and industry training leader John Woodward.

Ideally suited to children from five to eight years old, the book has been developed to encourage children to consider a career in demolition from an early age.

The book, which is priced at £4.99 (€7) plus postage and packing, has also been designed to allow parents, grandparents, carers and teachers to read it with children, to look more deeply at the subjects covered, and to encourage children to ask questions. "The book ticks all the key industry boxes," said Anthony. "Obviously, we wanted to explain just what demolition is, but we also touch upon materials recycling and the role of demolition in making progress possible. And, of course, there is an over-riding safety-first message."







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## Hitachi unveils hybrid wheel loader

Hitachi Construction Machinery unveiled its first mass production hybrid wheel loader at the recent Intermat exhibition. The new ZW220HYB-5 Hybrid has been designed and built at HCM's wheel loader factory at Ryugasaki, Japan.

The ZW220HYB-5 incorporates Hitachi technology from the bullet train and EH series dump trucks, which has been specially developed for the hybrid wheel loader. The ZW220HYB-5's engine powers a generator, which produces energy to drive two electric travel motors. When the machine is rolling or braking, it stores electricity in a capacitor. Under acceleration, it uses energy from the generator and capacitor, and so less engine speed is required when it reaches normal travel speed. The ZW220HYB-5's hybrid system will improve fuel efficiency by up to 26% compared to the conventional ZW220 wheel loader. This reduces the running costs, yet delivers the same performance.



## SANDVIK'S QE341 IMPRESSES ON SPANISH BIOMASS PROJECT

Sandvik Construction Mobile Crushers and Screen's QE341 scalper has been supporting production of electrical energy using biomass in Andalusia, Spain. Demonstrating its flexibility and efficiency the QE341 is producing a high quality final product of 0-20mm at a rate of 165t/h. There are 1.4Mha of olive crops in Andalusia producing an average of 4Mt/year of olives, and the residual materials from this process can be converted into biomass.

Agroenergetica De Baena runs a biomass power plant in Andalusia that generates and distributes

electricity to private and commercial customers throughout south central Spain. Sandvik Construction's QE341 mobile scalping screen is now part of this project. "This is an unusual project and the first of its kind for the region," said a company spokesman. "We chose from the Sandvik range as they have a good reputation for building solid, reliable and efficient equipment and the QE341 has worked very well and the material being produced is cleanly separated without the need for further screening."



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# CUTTING NEWSFLASH

***Summer has finally arrived in Europe, which means not only blistering sun and hot weather but a lack of news from the industry as well. A high season for contractors, summer is more often than not is a low one for manufacturers. In the segment of wall and wire sawing equipment, all activities have slowed down to almost a standstill. Andrei Bushmarin reports.***

Every year concrete sawing systems are getting more compact, lighter, easier and safer to operate. The advent of high frequency motors and wireless communication technology has made it all possible.

#### **TYROLIT Hydrostress unveils the world's lightest wall saw**

Switzerland-based heavyweight used Intermat to unveil what it says is the world's lightest electric wall saw. According to the manufacturer, the brand-new WSE811\*\*\* demonstrates a perfect balance between the weight and

performance. Weighing in at just 25.4 kg, the machine has a maximum power output of 9kW at 16A. Due to the integrated design, the wall saw needs only one power supply and one water connection. The WSE811\*\*\* is driven by a P2® (Permanent Magnet) drive. Integrated permanent magnets serve to reduce the motor's speed and heating and to take the strain off the machine's components, which results in longer service life and lower maintenance costs. The WSE811\*\*\* is available for customers as of late April.

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





### Pentruder goes wireless

The Swedish trendsetter in high-frequency technology has completed its Pentruder line-up with a wireless remote control, which is fully compatible with all Pentruder machines. By connecting a wall or wire saw or a drilling system to the Pentpak, the wireless remote control and a HF motor, users can perform virtually any sawing or drilling task. The remote control can be installed on the transport trolley or the Pentpak. To avoid downtime, two rechargeable battery packs are included in the scope of supply. The wireless remote control has the same user-friendly design with a joystick and rocker switches as the cable remote control. It retains such popular features as a water on-off button and simultaneous arm rotation and traveling along the track option. The wireless remote control will be available for delivery in late summer 2015.

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



### EDT Eurodima presents a hydraulic-to-electric drive upgrade package

Austria-based EDT Eurodima has marketed a 20kW "Servo Engine and Power Cube" package that will enable owners of Eurodima hydraulic saws WM50 and WM90 to upgrade them from hydraulic to electric drive. According to the manufacturer, almost all 100% of the 20kW input power is transferred to the blade thanks to the latest servo technology and a spur-gear-unit. Further benefits of this electric solution include smaller dimensions and lower weight of the system compared to the hydraulic set-up. And last but not least, it is a money-saving solution for customers, because they can use the existing rails, blade guards and wall saw head instead of buying a full electric saw package.

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



emission control systems



# Dust under control



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





## “Catching the breath”, **CLEAN**

***Once again PDi reviews the latest dust extraction, wet vacs and air cleaning equipment launched on the market this year. PDi's Mikael Karlsson reports.***

There is a constant flow of new professional products that efficiently handles dust and slurry. On the following pages you find the latest updates from our manufacturers.

### **Klindex Supervak 250**

For an optimum work set up Klindex has developed the Supervak 250 industrial dust extractor. Supervak 250 is equipped with two independent 4kW motors and a large filtering space. It is the ideal dust extractor for vacuuming large quantities of dust in industrial applications. It

is perfect for connection to big grinders like the Expander 1000 or to large scarifiers and shot blasting machines.

Equipped with various safety systems, like a vacuum limitator valve, ensures the cooling of the engines even in constant heavy-duty use. It

has a pressure indicator allows the monitoring of any malfunctions or filter clogging and a thermal safety switch stops the motors in case of overheating. Two secondary filters

protect the engine in case of accidental passage of dust through the main filters.

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

### **New air cleaner from Sila**

The manufacturer Sila Products has launched a new larger air cleaner called Sila 5000A2. The air cleaner has a capacity of 4,200m<sup>3</sup>/h and has been developed to clean the air in large rooms and manage large amounts of air born dust. The machine is equipped with two HEPA H13 filters with an area of 26.86m<sup>2</sup>. The design allows the upper filter to be less burdened with heavy dust, which prolongs the capacity of the air cleaner. The machine has two outlets where one outlet can create a negative air pressure while the other circulates the air in the room. Despite the machine's high capacity the power consumption is only 2 x 500W.

Sila 5000A2 is equipped with two coarse filter hatches that makes filter change easy and protects the HEPA-filter from shocks and blows. For transport the Sila 5000A2 is equipped with two large flat free wheels. The machine can be transported horizontally and is also equipped with a lifting eye, one filter guard per filter and variable speed.

The Sila 5000A2 uses the same coarse filters, HEPA filters and evacuation hose as the Sila 2000A2. As an





option there is a decontamination magnetic frame, which eliminates the use of tape against the air cleaner when used against temporary walls. Instead of using a traditional evacuation hose a 200m long disposable hose is available.

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

#### Husqvarna's new DC 1600

Husqvarna Construction Products showed a new dust collector unit at World of Concrete in January. DC 1600 is a highly efficient dust collection unit, with automatic self-cleaning technology. This new product is the perfect complement to the floor grinders PG 400, and PG 450. The DC 1600 has HEPA rated filters and an automatic pulse filtration system.

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



#### Scan Dust 2900 from Scanmaskin

The new Scan Dust 2900 (SD 2900) dust collector from Scanmaskin is a great option for all of the company's smaller grinders, including the Scanmaskin 18; and the Scan Combiflex 330, 450, 450NS, 500i, and 500PD.

The SD 2900 is a versatile and efficient dust collector with high reliability and performance. The unique cylindrical design functions as a pre-separator, causing heavy particulates to separate from the fine dust. The heavy particles immediately drop into the bottom of



the cyclone, bypassing the filters completely, increasing filter life and suction performance.

The SD 2900 is equipped with Jet-Pulse, an efficient system that pulses the filters in order to keep them clean. The SD 2900 uses sock filters, which can easily be washed in order to prolong filter life. There is also a main filter option—a traditional cartridge filter that could be better when working on hardwood floors and similar surfaces. The main filter cassette can easily be changed to fit the cartridge filters. In addition, the SD 2900 is equipped with four HEPA 13 filters.

The SD 2900 also takes advantage of the Longopac bagging system, which makes managing dust very easy and efficient. With the Longopac system, all dust is collected in a single heavy-duty plastic bag, which can easily be disposed with minimal dust contact.

#### Technical Data:

Motor (kW) 2.8  
Max. airflow per hour (m<sup>3</sup>) 420  
Noise level (dB(A)) 65 dB(A)  
Weight (kg) 30  
Dimensions (mm) 560x800x1300

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

#### HTC's efficient unit for hazardous dust like asbestos

HTC is launching the unique HTC 80 iDH, which fulfils market demands for a professional suction device for hazardous dust, such as asbestos.

The HTC 80 iDH has been developed based on a comprehensive concept for dealing with hazardous dust, such as asbestos. In addition to keeping the work environment dust-free, the dust extractor is also easier to clean and its functions have been adapted for workers moving around an environment in which hazardous materials are dealt with.

The machine includes a customised transport pallet (as option) that allows sealed transportation with a reduced risk of hazardous dust spreading. In addition

to an H-14 filter (FN 1822), the entire machine has been certified by Germany's IFA test institute, thus ensuring it fulfils the requirements of the EN 60335-2-69/AA standard.

There are several customised functions for handling hazardous dust:

- Pressure monitoring system that signals when the airflow is insufficient
- HEPA 14 filter (FN 1822) filters more than 99% of the dust
- Diffuser on the air outlet to reduce the risk of swirling air/dust



- Extra safety bags protect the dust bags
- Smooth wheels that is easy to clean
- Sealed transport pallet including loading ramps is available as an optional extra

The HTC 80 iDH increases the safety of work with asbestos and other hazardous dust, and will initially be sold mainly on the French market.

"We now have a state of the art machine that lives up to all regulation and demands on the market and has been developed with the operator's safety and risk exposure in focus," says Thomas Forss, managing director HTC France.

[www.htc-floorsystems.com](http://www.htc-floorsystems.com)





### Ruwac WS2320-HD industrial vacuum

Ruwac has recently created and launched the WS2320-HD, a heavy duty intermittent duty vacuum that features 372,5mb (11Hg") of negative vacuum pressure the most powerful of its kind in the market – and it doesn't give heavier materials a chance when it comes to cleaning up your work space.

Great for working with blast media such as glass bead and steel shot, the WS2320-HD encompasses high power suction, powerful filtration, and an easy foot-actuated dust-pan disposal system that will collectively provide you with a dependable and maintenance-free dust removal solution.

Available with an outstanding 300 CFM, the WS2320-HD heavy duty vacuum includes a 240 Volt single phase motor. Its 2.6m2 (28 ft2) micro clean filtration is industry-leading at 99.99% efficient at 0.5 microns, and nearly eliminates the possibility of premature clogging and costly filter changes.

All of Ruwac micro clean filters are backed by a three-year guarantee, with optional HEPA or ULPA filtration available for air purification. The vacuum's modular housing is fully grounded and sealed for dust-free operation, and made from a dent



and rust-free compression cast composite housing that is guaranteed for life.

With its 111,77l/m- (9 gallon foot)-actuated dust-pan, users have limited interaction with its contents and no messy spills to contend with.

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

### Superabrasive's LAVINA® line

Superabrasive's LAVINA® line of commercial vacuums includes a full range of models from the smallest V-16 vacuum, designed to work with edgers and smaller grinders, to the largest V-32 vacuum, suitable for work with the most powerful floor grinders.

A wide range of power and airflow allows operators to select a vacuum that is most appropriate for their machine(s) and workload. Different voltage options are available to suit European, US and other international power standards.

The heavy duty and powerful V-32 vacuum, featuring 2 motors (5.4kW+1.5kW), 550m3/h CFM and 318cm water lift, is ideal for use with 800 mm grinding machines and larger, and it has become the vacuum of choice for the toughest grinding projects.

Its most notable feature however is its unique pneumatic jet filter cleaning system – a fully automatic, hands-free system that utilises a compressor



for continuous filter cleaning during use.

This system is also available on the smaller V-25L model, which is ideal for use with 500 and 635mm grinding and polishing machines. The V-20 and V-25 vacuum models feature an upgraded manual cleaning brush system that allows operators to efficiently clean filters, also during use, with one quick turn of a handle. With efficiency at top priority, there is never a need to slow or halt workflow for filter cleaning.

Additional benefits of LAVINA® vacuums include large filters with surface areas up to 8 m<sup>2</sup>, the popular and convenient Longopac® bagging system for easy dust disposal, 100% steel construction, anti-static hoses, and more.

The LAVINA® vacuum line also offers two vacuum pre-separator models, VS-25 and VS-32, which are especially useful on large projects where heavy grinding is performed.

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

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Simon Holer, one of the owners of the company and a PDi reader in New Zealand.

**Holer**  
DIAMOND TOOLS



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# HOLER DIAMOND TOOLS

***New Zealand is a small but active concrete cutting market and the largest supplier in the country is Holer Diamond Tools. PDi's free-lancers Jenny and Lennart Östervald travelled a while ago to New Zealand and met up with Holer.***

On January 5, 2015, PDi's Swedish correspondents arrived to the town of Nelson on New Zealand's South Island. It was really hot—almost too hot—so they were happy to be welcomed into Holer's air-conditioned premises.

## Full speed into 2015

Holer Diamond Tools Ltd is New Zealand's largest supplier of tools and machines in the concrete cutting industry. They claim to hold the largest market share for the domestic market, but are also exporters.

The correspondents' aimed to get a closer look at Holer during their five-week stay in New Zealand. Luckily, the people in New Zealand go back to work after the Christmas break a few days earlier than Swedes so they could visit the company before heading back to Sweden.

On the 5th of January, the first working day back after the Christmas Summer holidays one of the owners, Simon Holer, met with the correspondents. He said cheerfully that it was of course nice to have a few weeks' holidays, but it is also good to get back and take care of business.

Brothers Simon and Phil own Holer, but everything started with their Austrian parents Linda and Fred Holer who settled in New Zealand 25 years ago. Fred was one of the first concrete cutters in Austria purchasing his first core drill system some 48 years ago, true pioneering days.

One of the mayor projects that Fred was involved in was the maintenance removal projects of the Autobahn from Austria to Italy especially work on the famous Europabrücke, the highest bridge between Austria and Italy, which was built between 1960 and 1963.

Since the father started Holer Diamond Tools in 1992, the company has grown fast.

The company has had its headquarters and manufacturing base in Nelson for the last 23 years, but it also has sales support and service centres in Auckland and Christchurch.

## Orderliness

After the coffee the company tour started. The visitors were struck by the order and tidiness of the operation. Everything is meticulously sorted, everything in its place. It is clean and tidy everywhere.

New Zealand, with its 4.5 million inhabitants is not a large market for the international manufacturers.

The company's largest market is outside the country. On average, 100,000 items are shipped out annually.

Part of the company's business concept is to import products, check the quality, pack the products, make them suitable for NZ's conditions and then distribute them to their customers. The staff put a lot of work into ensuring that the products maintain Holer's high quality standards. In total, products are imported from up to 40 different suppliers around the world. Some well-known brands that Holer distributes are Tyrolit, Diamond Products, Hydrostress, ICS, HTC-Sweden, Stihl, Weka and Pullman Ermator.

Holer does more than simply distribute products. The company also manufactures its own diamond tools and some machines as well.

After a demonstration of the goods' receipt and inspection process, the tour went over to the high-bay warehouse where larger machines are stored waiting to be delivered. Again, everything was in the right place in perfect order.

## Own development and manufacturing

In the production sector of the plant, activity was high. Simon proudly showed the company's latest major investment, a fully Robotic Core Drill Welding machine from Dr Fritsch.

From the time he entered the data, it took only two minutes for the computerized robot to complete a 102 mm Core Drill.

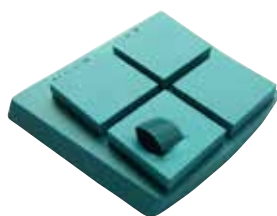
This machine gives Holer the ability to produce high quality core drills at rapid speed.

Other products manufactured by Holer include blades, cup wheels and grinding shoes. The goal is to produce customer specific products in a flexible and cost effective process.

Simon says that they also manufacture a unique Concrete Grinding Dust Shrouds which is a real hit globally.

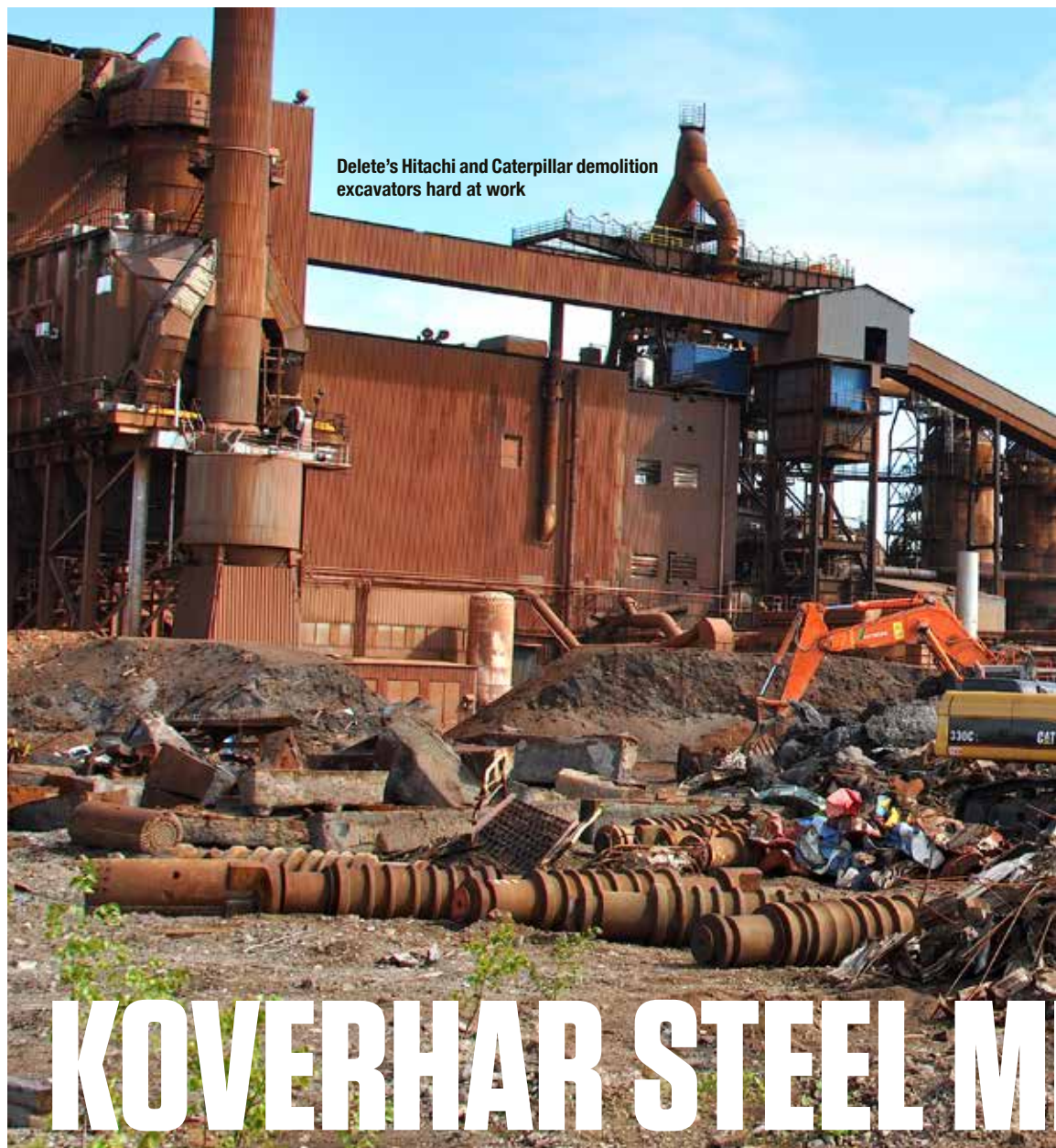
Simon believes that Holer has managed to grow and gain its place in both the domestic and the international market, thanks to being quality conscious, accurate, flexible, and, perhaps most important, innovative. Next on his agenda is tackling the pleasant "problem" of planning a facility expansion in order to continue to grow and meet future needs.

We wish Holer Diamond Tools Ltd. the best of luck!  
**[www.holer.co.nz](http://www.holer.co.nz)**





***A new player in the demolition industry, Finland-based Delete is fast establishing itself as a force to be reckoned with. With a staff of about 700 professionals, it provides heavy-duty demolition, recycling and industrial cleaning services throughout Finland and Sweden. Delete's biggest demolition project so far is currently underway in Koverhar where a 28,000m<sup>2</sup> steel mill is being dismantled. In June PDi's Andrei Bushmarin visited the job site.***



# KOVERHAR STEEL M



Located in a picturesque harbour on the south coast of Finland, some 130km from Helsinki, the 600 kt/a Koverhar integrated steelworks dates back to the early 1960s. Over this period, the mill has seen many owners and has undergone numerous renovations. Its last operator FNsteel Oy Ab was halfway through a revamp of the blast furnace when the company realized that, unless it attracted some external funding, it would have to shut down the mill. After a few failed attempts to raise the necessary finance, FNsteel was forced to file for bankruptcy in 2012.

## Delete takes over

On 1 August 2014, Delete purchased the Koverhar plant from FNsteel. The takeover agreement stipulated that Delete should demolish the plant and recycle the debris, including some 50 thousand tons of ferrous by-products that had accumulated onsite over the years. To execute the recycling part of the project, Delete partnered up with ABO - a Belgium-based specialist in recycling and valorisation of by-products from the steel industry. ABO was tasked with preparing the ferrous by-products - pig iron, steel skulls, large steel lumps from reversed slag pots, tundishes and steel scraps - for re-use as raw

materials for steel making. The preparation process would include deslagging, breaking, screening and magnetic separation. Once prepared, they would be sold through ABO's extensive network in the European iron and steel industry. After that Delete would move on to recycling of the mill's non-reusable parts and structures.

## Multi-stage dismantling project

With 39 different buildings (most of them steel structured) to be demolished, Delete found itself facing a task of gargantuan proportions. Obviously, the project this big could not be performed without careful planning. The project execution plan finalized in late 2014 dictated that the entire scope of work should be divided into five stages. The first stage, which commenced in May 2015, involved demolition of the buildings and other structures in the harbour area - conveyors, coke storages and dryers. At the time of writing, Delete operators had already torn down the gas bell and were mid-way through demolition of a raw-material warehouse. The second stage would see dismantling of the scrubber and water treatment facilities. Next up in line would be storage buildings, production facilities and





# MILL TO BE “DELETED”



Alexandra Forsén  
– the forewoman on the job.



The steel mill's internal structures.



Views of the Koverhar harbour  
from the top of the mill.

foundations. The project's estimated time of completion is the first quarter of 2016.

## Demolition with a woman's touch

A team of eight specialists supervised by project manager Raimo Lehtimaa is involved in the execution of the first stage. Among those seven under his command, there is a forewoman Alexandra Forsén. Her track record at Delete as a competent and efficient professional demolishes the preconception that this business is exclusively a man's domain. The rest of the team are five excavator drivers and a gatekeeper. Of the 27 excavators that the Finnish contractor at the moment has at its disposal, it chose five machines to complete this step: a 60t Caterpillar 380 with long- and high-reach capabilities, two Hitachi models with the operating weight of 80t and 120t respectively, a 40t Volvo excavator and a 24t wheeled Doosan machine. The choice of such heavy-duty machinery was predetermined by the sheer scale of the project. Although the volume of work is definitely a challenge, says Delete's Communication Manager Tanja Vepsäläinen, it is not the biggest constraint on the job. The obstacle that hinders Delete progress rather more is a large number of steel-making equipment, too valuable to be

just thrown away. Finding buyers for equipment like that takes time, which affects the speed at which demolition progresses.

## Delete in a snapshot

Founded in 2010, Delete can still be regarded as a young company. This rookie, however, is growing by leaps and bounds and has every chance to become a dominant force on the European continent. The company grows primarily through acquisitions: in the course of five years it took over about 20 companies in Finland and Sweden. In 2014, Delete netted some 100 million euros in sales. The company's main shareholder is Denmark-based private equity group Axcel, with Delete's top management owning the rest of the shares. Delete has its roots in industrial cleaning, and this business still rakes in some 40 per cent of the company's turnover. Thanks to its chain of nearly 30 service depots, Delete is able to provide such specialized industrial cleaning services in every region of Finland and Sweden. Demolition and recycling operations account for another 46 per cent of the turnover. The remainder comes from the services rendered to the private property sector.

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







## Husqvarna floor grinder takes on 65,000 m<sup>2</sup> space in Turkey

***On the Asian side of Istanbul, a ground-breaking shopping mall dedicated to car enthusiasts is being built. In this large project, Husqvarna's brand new remote controlled PG 820 RC floor grinder is playing a key role.***

Near Sabiha Gökçen International Airport and the Sea of Marmara in the eastern part of Istanbul, an enormous six-story mall is being constructed. Oto World Asya will consist of 95,000 square meters of everything car related – new and second hand car dealerships, accessories and car audio stores, tyre stores, traffic consultancies, insurance agencies and much more.

For this project Atlas 1, the largest floor grinding contractor in Turkey, was asked to do the almost impossible – grind and polish 65,000 square meters of concrete floors into high gloss showrooms in just 100 days. To complete this task they chose to use five Husqvarna PG 820 floor grinders running in three shifts.

### Strong performer

Mustafa Kalelioglu is the Sales and Marketing Manager for Cullas Ltd STi, the company distributing Husqvarna's products in Turkey. When he approached Atlas 1 with the opportunity to add the brand new remote controlled PG 820 RC to their line up, they jumped at the chance.

"PG 820 RC can perform at a 30 per cent higher level than the standard model, and since they were on a tight schedule, that was very welcome", says Mustafa Kalelioglu.

This was the first sale of PG 820 RC in the European region, so Joakim Leff-Halstein, Global Product Manager Floor Grinding at Husqvarna, flew to Istanbul for the delivery.

"I was truly impressed with Oto World Asya, it's one of the largest project involving polished concrete floors I've heard of. I think it was a perfect fit for our machines and our HiPERFLOOR™ method", says Joakim Leff-Hallstein.

Working with PG 820 RC is not just faster, it also exposes the operator to fewer constraints.

"It's hard work operating a traditional floor grinder all day, so of course it's easier to handle it via remote. I've heard that they fought to be the one to operate the RC machine", Joakim Leff-Halstein says smiling.

### Growing in Turkey

Husqvarna has been an established brand in Turkey for decades when it comes to Forest and Garden, but Construction only started working the market seven years ago.

"We've come a long way in a short time. Atlas 1 started using Husqvarna machines two years ago, and hey are since recently working exclusively with us. Being so actively involved in such a massive project as Oto World Asya is a great reference for us and will

make our job much easier when closing sales in the future", says Mustafa Kalelioglu at Cullas Ltd STi.

The overall importance of the Turkish market is also growing, Joakim Leff-Hallstein points out. "Turkey is a large and important market for us and with a higher growth rate than many other European markets. Growth is high and there is a lot of ongoing and planned construction. I also think this will prove to be important for our expanding presence in the Middle Eastern and Asian markets", says Joakim Leff-Hallstein.

### More to come

So how is Husqvarna's machinery performing at the construction site? Mustafa Kalelioglu says that they couldn't be more pleased. Atlas 1's work with Husqvarna's floor grinders has proved so efficient, that they are now ahead of schedule.

"Initially the contractors building the mall had some doubts about if we could keep up with them, it was important that the grinding and polishing aligned with the ongoing construction work. But guess what? They fell behind us! Now we are waiting for the building crew to open more spaces where we can start to grind and polish."



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# WEKA: RELIABLE PRESTIGIOUS



***It couldn't be more appropriate that drill motor specialist Weka Elektrowerkzeuge should come from the Stuttgart area. Home-town of Mercedes Benz and Porsche, Stuttgart is literally the motor of the global automobile industry. And just like Carl Benz and Ferdinand Porsche before him, Weka's founder and creative force Wilhelm Wurster has become an icon and a household name in the concrete drilling industry. Andrei Bushmarin reports.***

The comparisons between Weka and the two automotive giants are not an exaggeration. Weka's reputation for making sleek and powerful drill motors is on par with that of its fellow Stuttgart automakers. What is truly remarkable is that it took a mere quarter of a century for the German manufacturer to achieve this cult status.

#### **"Paint it red"**

Weka's story began on 1 October 1988 in a 50m<sup>2</sup> paint shop in Altbulach, a small village near Stuttgart. It was where that Wilhelm Wurster set up his office-cum-factory. A former Duss mechanic and a design engineer of 13 years at Dr. Bender, he was driven by the desire to create his own machines. The newly founded company needed a name,

so he coined "Weka" by abbreviating the words "Wurster", "Elektrowerkzeuge" (electric tools), "Kernbohrmaschinen" (core drilling machines) and "Altbulach". Having decided to target heavy-duty professional drillers, Wilhelm Wurster and his only employee Ute Strauch got to work on what would become the legendary DK22 drill motor. Decked out in an eye-catching bright red colour, the DK22 featured an overload clutch (at the time when only machines with a shear pin were available), a start current limiter and a three-speed oil-lubricated gearbox. It was launched the same year and became a smashing hit with users.

#### **Building momentum**

Buoyed by the DK22's success, the manufacturer kept

working at a neck-breaking speed to build on the momentum. Ideas for new machines came fast and thick, and a year did not pass without Weka launching a new model into the market. Hot on the heels of the DK22 came Weka's signature motor DK12. Designed for hand-held jobs, it featured a pistol grip, an oil-bath lubrication system and a three-speed gearbox. It was followed by the drill stand KS13 only a year later. Business was growing, so was Weka's facilities. In December 1992, in the first in a series of expansions, the company moved out of the paint shop into much bigger premises. Over the course of 20 years, it was enlarged four times, with the latest fifth expansion is underway right now. Once the work is complete in late 2015, Weka would have 2,200 m<sup>2</sup> of



# E AS MERCEDES, AS PORSCHE



Assembling work at Weka factory in Neubulach.



Wilhelm Wurster showing one of Weka's latest drill motors.

space for office and manufacturing facilities. It was also in the early 90s that Weka started to expand internationally. Austria, Switzerland, Italy and Denmark were the first to benefit from Weka's engineering expertise. It did not take long, though, for all the other European countries (with the exception of a handful of small states like Albania) to follow suit. Today Weka sells to a total of 34 countries across every continent. Europe accounts for the biggest share of international sales, with North America coming up second best. Recently, Weka has also zeroed in on the Middle East market as well as Malaysia and the Philippines.

## Diversifying into new technologies

The late nineties and noughties were the time of diversification for Weka. In 1998, it developed and marketed the DK32 drill motor for rig-based applications, which still remains Weka's bestselling machine. In early 2000s, Weka shifted its attention to switch reluctance motors (SRM). Unlike conventional universal or high frequency motors, in SRMs power is delivered to windings in the stator rather than the rotor, which considerably simplifies mechanical design, increases performance and speed range and allows using smaller microcontrollers for the drive. Weka's first switch reluctance motor Mammuth SR35 with the power rating of 3.7kW and six speed settings was presented to the drilling industry in 2002. Having received the positive feedback from the market, Weka then beefed up the SRM range with another four

models. At the turn of the millennium, the manufacturer also began to introduce sawing equipment into the lineup. "Frida" - a compact wall sawing system featuring a rotation arm - was launched in 1999. A few years later the sawing range was extended with disc saw "Anna" and hand saw "Emma", both powered by high-frequency motors.

## Portrait of an extended family

With a staff of 40, Weka is a quintessential mid-size firm. In fact, an "extended family" would be a more appropriate term, given that family is the cornerstone of Wilhelm Wurster's system of values. Some Weka employees - Ute Strauch being the most telling example - have been working for it almost since day one. Having



been founded and headed by a technician, Weka tends to focus on product development while putting the issues of marketing and promotion on the back burner. The manufacturer has a sizable R&D department, which it is looking to expand even further. This autumn two students from a local university who are now working

for Weka under an apprenticeship scheme will join the company on a fixed contract. This constant investment in science and research pays off by enabling Weka to produce machines of high-quality and durability. According to the manufacturer, it still gets spare parts requests from users for their DK22s they bought 26 years ago. It is

a lesser-known fact that Wilhelm Wurster's other big passion is painting. This might explain the finesse and longevity of the DK22 and other Weka products: they are pieces of engineering art created in a paint shop by an innovator with an artistic streak.

**[www.weka-elektrowerkzeuge.de](http://www.weka-elektrowerkzeuge.de)**



"Weka has a sizable R&D department, which it is looking to expand even further".



(Left to right) Project Manager Daniel Schrade, Sales Manager Annemarie Wurster and Weka's owner and President Wilhelm Wurster.



The legendary DK22 drill motor – the first Weka product launched 26 years that became a smashing success with users.



"It is a lesser-known fact that Wilhelm Wurster's other big passion is painting." Some of Mr. Wurster's paintings.



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# GEARING UP FOR A **GREENER** FUTURE

**Increasingly stringent emission regulations keep engine manufacturers on their toes. No sooner they updated their ranges with Stage IV-compliant engines, it is already time to start getting prepared for the upcoming Stage V standard. PDi's Andrei Bushmarin reviews the latest innovations in the world of engines and motors.**

Nowadays, many people use the words "engine" and "motor" interchangeably. Admittedly, with the advent of new technologies the borderline between the two gets gradually rubbed out. But, if we go by the book, engines use internal combustion reaction to create motion whereas motors - electricity. This year brought news in both categories.

## NEW MOTORS

### Weka sets the bar higher with HD16

The German trendsetter in drill motors has raised the bar higher once again by releasing a new high frequency machine for hand-held applications. Weighing in at only 6.2kg, the new HD16 boasts a power rating of 3,700W. Designed for wet drilling in tough environments, this three-speed water-cooled motor comes in a robust full-metal casing. The protection class IP55 enables the user to drill overhead without any additional precautions. The motor is controlled by the Weka frequency converters FU4 or FU6. The cooling system is completely separated from the electrical part to prevent water from entering the motor's internals.

[www.weka-elektrowerkzeuge.de](http://www.weka-elektrowerkzeuge.de)

### SEPT Tools chooses brushless technology

France-based SEPT Tools is a new player in the field of surface treatment that only uses brushless and high frequency motors in its machines. Brushless motors feature permanent magnets, which rotate around a fixed armature. An electronic controller replaces the brush/commutator assembly of a brushed DC motor, which continually switches the phase to the windings to keep the motor turning. The controller performs similar power distribution by using a solid-state circuit. Brushless motors offer several advantages over brushed DC motors, including high torque-to-weight ratio, increased efficiency and reliability, reduced noise and longer lifetime. Thanks to the fact that the windings are supported by the housing, they require no inside airflow for cooling. This means that the motor's internals can be entirely enclosed and protected from dirt or other foreign matter.

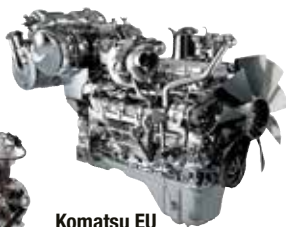
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Weka HD16.



SEPT Tools brushless motor.



Komatsu EU stage 4 engine.

Hatz 4H50TIC.



Deutz engine.



## NEW ENGINES

### Hatz's 4H50TIC receives a silver award in Berlin

On 29 May, Hatz's latest addition to its H-series - the water-cooled four-cylinder engine 4H50TIC - received a silver award at GreenTec Awards 2015 in Berlin in the category "Automobility". Dr. Simon Thierfelder, Head of Engine Development, and Franz Moser, Head of Electrical Engineering, accepted the official certificate. The 4H50TIC was selected to the final round due to its resource efficiency, low pollutant and noise emissions. Unveiled at Intermat 2015, the turbocharged two-liter 4H50TIC is the first engine in H-series that relies on the common rail technology. Designed with downsizing in mind, it reaches a maximum output power of 55kW while weighing a mere 173kg. One of the new engine's key elements is the common rail system off-highway CRS from Bosch, featuring a 1,600bar fuel rail. The combination of the common rail technology and the redesigned exhaust gas return system generates exhaust gas that does not require any particulate filter. With a maintenance interval of 500 hours, the 4H50TIC is reliable and user-friendly.

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

### Deutz announces readiness for Stage V

Germany-based engine manufacturer Deutz has announced this year that its diesel engines in the 2.9 to 7.8l category already meet the forthcoming Stage V emissions standard for mobile machinery, which is expected to come into force in January 2019. Marked by a "Stage V ready" logo, these engines were among the models showcased at Intermat this April. In anticipation of the fourth emission standard (EU Stage IV/ US EPA Tier 4), Deutz had partly re-designed the engine range and had implemented a new exhaust aftertreatment technology. According to the manufacturer, these engines featuring sealed diesel particulate filter already conform to the strict Stage V requirements. Another highlight of the Deutz booth at Intermat was modular system for exhaust aftertreatment DVERT (Deutz Variable Emission Reduction Technology). Virtually all the elements of this system can be combined with one another to produce a desired result as regards engine performance, emission limits and competitiveness.

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

### Komatsu commenced serial production of Stage IV-compliant engines

Komatsu began serial production of EU Stage IV-compliant engines for mining and construction machinery in 2014. To meet the required emission levels, the Japanese heavyweight uses a combination of techniques, which include aftertreatment system, exhaust gas recirculation (EGR) system, advanced electronic control, Komatsu variable geometry turbocharger (KVG) and high-pressure common-rail fuel injection system (HPCR). The heavy-duty aftertreatment system combines a diesel particulate filter and selective catalytic reaction (SCR). The SCR NOx reduction system injects the required amount of AdBlue to decompose NOx into non-toxic water (H<sub>2</sub>O) and nitrogen gas (N<sub>2</sub>). The EGR system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures to reduce NOx emissions. The electronic control system constantly processes data from the sensors installed in the vehicle and the engine, which helps reduce the levels of NOx and particulate matter as well as lower fuel consumption and noise levels. The KVG system, featuring the Komatsu hydraulic technology for variable control of intake airflow, adjusts the volume of airflow according to load conditions. The computerized HPCR system ensures correct injection of fuel under high-pressure.

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## BRETEC BREAKER SOLVES PROBLEM IN BRAZIL

Brazilian cement producer, Brennand Cimentos has made its foray into the hydraulic hammer market with the purchase of a Bretec L20 unit. Mounted on an XCMG XE210 excavator, the silenced breaker has been pressed into action breaking large number of boulders at the company's facility at Sete Lagoas that annually produces more than 1Mt of Portland cement.

The company has had significant problems with breaking boulders and when broken into small pieces can be used in the production process. Their removal would also be beneficial to the general operations at the plant. "As part of the cement production process, we often have to deal with large boulders that are too large to be moved or crushed," said mining coordinator Paulo Pereira.

"We trialled a competitive breaker but it simply could not break these boulders. In fact, when Rock Brit delivered the

Bretec L20, we already had a big boulder that the previous hammer had failed to break. The Bretec breaker made an immediate impact. Since we installed the Bretec hydraulic hammer it has worked well and productivity has been very good!"

Although happy with the Bretec breaker the actual performance, although very important, was just one factor in the purchasing decision. Another key factor for Brennand is the support they would receive locally from Bretec's distributor in the region, Rock Brit. "There is ease of logistics because we are in nearby cities, thereby allowing streamlined delivery. This also results in speedy maintenance, but this has not yet been required," said Pereira. "Rock Brit also provided technical support for both the delivery and in the aftermarket, which makes us feel that we are receiving excellent levels of support."



## LAYHER PROTECT SYSTEM

The Layher Protect System offered two big advantages in the demolition of a bunker in Eimsbüttel, a quarter of Hamburg. Its quick assembly allowed the work to stay on schedule and dustproof enclosure with excellent noise insulation provided residents protection from dust and noise.

The courts have put strict limits on noise emissions from construction sites in city centres and for this reason the company responsible for demolishing the 20m bunker developed a sophisticated scaffolding plan. Besides providing protection from noise and dust it ensured that assembly and modification would go fast so that the project could stay on schedule.

The scaffolders Muehlhan from Hamburg offered the demolition company Ehler & Söhne a dust-proof enclosure that consisted of cassette elements that fitted to the scaffolding and had an all-round rubber seal. The system's acoustic insulation properties allows it to be used for temporary noise control walls, as noise emissions can be reduced by more than 75%.

The scaffolding erectors put up a SpeedyScaf structure over an area of 2,000m<sup>2</sup> as a substructure for the cassettes. An external landing stairway provided access to the site, even with working materials. Following step-by-step demolition by explosive charges, the scaffolding erectors used the cassettes equipped with sound-insulating mats only in the section where they worked. In the area below they used tarpaulins.

As the demolition work progressed, the cassettes were moved down and in this way the structure provided local residents with effective noise protection. Piece by piece the bunker, erected in 1942, came down. Others like it will probably follow in order to create new living space in this area, which is one of the most densely populated in Hamburg.

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



## Aquajet enhances image for hydrodemolition in Singapore

***Hydrodemolition technology has achieved a boost in Singapore through the use of an Aquajet Hydrodemolition robot on part of the island's new MRT Downtown Line, helping to recoup lost time after the original contractor went bankrupt and had to be replaced.***

The use of Hydrodemolition technology seems likely to increase in Singapore in future, following government policy to improve productivity and therefore reduce reliance upon foreign labour. Hydrodemolition robots are amongst the categories of construction equipment that are now eligible for government grants that cover productivity and environmental concerns.

Asia Waterjet Equipment, Aquajet Systems distributor in Asia, believes there is now a case in Singapore for advanced concrete removal technology. "Increasingly contractors are keen to invest, and with government support there is a tremendous amount of interest in what can be achieved in labour savings, health and safety, noise control, and increased quality and productivity," said AWE regional sales manager Patrick Lee. "The problems that developed on Singapore's Downtown Line, and the ways in which they have been resolved, have helped enhance the image of hydrodemolition technology."

In September 2009 the Land Transport Authority awarded the Austrian contractor Alpine Bau two contracts on the Downtown Line Stage 2. Alpine had purchased an Aquajet 710A Robot for removal of large areas of concrete, an operation that would have

conventionally used jackhammer operators, but the size of the surface to be cleaned, and the timescale, would have required a large force of contract workers.

Alpine went into bankruptcy in 2013, causing work on the two contracts to come to a near standstill. The LTA put the work out to retender and Australian contractor McConnell Dowell won the contract and purchased an Aquajet AquaCutter 710V Classic from AWE, along with other water cutting equipment.

"McConnell Dowell had to run the machine very hard to catch up with the schedule," said Lee. "Towards the middle of 2014 they were running the machine on 24h shifts compared with the average 14h days for other MRT works. The contractor was achieving impressive productivity removing concrete at an average rate of 250m<sup>2</sup>/day."

"It was originally proposed to have the renewed contracts completed by the middle of 2016, about half a year behind the original deadline, but the LTA has announced that work will be completed in the first quarter of 2016, at the latest. The degree of control possible with the Aqua cutter meant that the delicate process of removing concrete without damage to the rebar could be controlled to a very fine limit," said Lee.



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# "WORKING TOGETHER"

***The European Demolition Association held its annual convention in June in Helsinki, Finland. Recycling and environmental topics dominated the agenda. Jan Hermansson reports.***

The Finnish Demolition Association was the host for this year's European Demolition Association convention in Helsinki, Finland in June. The convention attracted around 80 delegates and was held at the Scandic Grand Marina Hotel right on the Baltic Sea.

The convention started on Thursday 11 June with a meeting for the FDA and continued with workshops on the subject of Selective Demolition: Current Practices and Innovation. This was followed by a visit to a demolition waste management facility in the Helsinki region. In the evening the EDA held its General Assembly where EDA president Pilar de la Cruz was re-elected for another term and gave a welcoming speech together with the FDA President Janne Salonen at a cocktail reception, which was sponsored by the Finnish demolition company Delete.

The multilingual conference followed on Friday 12 June with simultaneous translations in English, Italian, French and Spanish. The conference was opened and moderated by Riikka Kinnunen from the Association of Finnish Environmental Industries and Services. EDA president Pilar de la Cruz welcomed the audience and an institutional opening speech was given by member of the European Parliament Sirpa Pietikäinen, who represents Finland on behalf of the country's National Coalition Party.

The first conference session started with Barry Ward from the UK speaking about guidelines for the demolition of tower blocks. Holly Price continued on the subject and pre-weakening of steel structures to enable demolition and Johannes Harzheim from the German demolition contractor Harzheim

presented a case story concerning demolition of tower blocks.

The second conference session continued with the Netherlands Veras demolition association representative Edwin Zientjes speaking about the framework for demolition in the Netherlands. Zientjes said that Veras was founded six years ago and now has around 100 members representing about 80% of the demolition industry. In total there are about 400 demolition companies in the Netherlands, but the remainder are very small. The value of the Dutch demolition industry is estimated at around €400M and has been in a strong decline since 2008 when value was estimated at €8,060M. However, it is expected that the industry will increase with around 5%/year in the coming three to five years.





The European Commission representative Vincent Basuyau gave the Commission's perspective about demolition and recycling within the EU. He said that it is estimated that 70% of the demolition waste is now recycled in Europe, with a target of 90%. Japan is a very good example with a recycling level of 98%. The annual volume of construction and demolition waste is estimated to some 500Mt.

The second session ended with the presentation by Delete representative Janne Salonen of a case story about the demolition of the Koverhar steel mill in Finland. Delete is a comparative newcomer in the Nordic demolition and recycling sectors. However, the staff have many years of experience working for different Finnish demolition and recycling companies. Salonen said that Delete is an environmental company work-

ing with demolition, industrial cleaning and clearance of hazardous material, sewer cleaning and traditional recycling services. The company has a huge fleet and three stationary waste treatment plants in Finland. The turn over in 2014 reach over €100M, which makes Delete by far the biggest company in this sector in the Nordic region. Delete currently has 700 employees and has a target turnover of €200M. The company has a very strong foothold in Finland and the highest priority is to build a strong foothold in Sweden and later in the other Nordic countries.

After lunch the conference continued with Mathieu Hiblot from France explaining the French model for tracking demolition waste. Andreas Pocha, executive director of the German demolition association shared trends within the European demolition industry. A

number of interesting statistics were produced and Pocha said that it is estimated that the average growth for the construction sector in Europe is estimated to 2.3%/year between 2015 and 2017. Vedrana Lovincic from the Croatian demolition and recycling contractor Eurco described the practices in demolition and use of recycled construction and demolition waste in Croatia. Lovincic said that it was very hard to describe the Croatian demolition industry as there are very few statistics and more projects are related to the process industry then traditional general construction.

After a short break the convention continued with the last conference session, which started with a talk about training workers to deal with hazardous waste decontamination. The presentation was given by Gunilla Berenvi Rex from the Environmental Consulting Group







and the president of the Swedish demolition association Lars Sandström. Bernevi Rex spoke about PCBs and its effects. Some of the delegates believed that the level of PCBs in construction is higher in the Nordic regions of Europe and did not consider PCBs a problem in central and south Europe. Sandström said that 90% of Swedish construction workers are afraid of hurting themselves

on site. About 3,000 people/year are injured at work in Sweden and an average of 10 deaths/year.

The session continued with Johan Finsteen from Denmark talking about working with explosives. The session concluded with EDA secretary José Blanco explaining the European Professional card for Demolition Workers.

The conference ended with a gala dinner at Helsinki's Katajanokan Kasino, sponsored by the auctioneer Ritchie Bros. Other sponsors of the 2015 EDA convention were Liebherr and Arden Equipment. Exhibitors at the convention's small exhibition were SMH, Rammer, NPK, Mantovanibenne, Robi, Demarec and PDi Magazine.







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"SET SOME GOALS,  
THEN DEMOLISH THEM"  
*Anonymous*

# Demolition, But Not As We Know It

***What lurks behind the traditional façade of Carey Group's Wembley headquarters north west of London is a pristine and space-aged glimpse of the industry's future. Mark Anthony penetrated the company's inner sanctum.***

I have driven past Carey Group's innocuous-looking headquarters countless times on my way to the old and new Wembley Stadium. As an England football fan by birth, and a West Ham fan by choice, it is a journey that I have long associated with hopes dashed and with disappointment. Yet, even in the hours of traffic jams on the way to yet another "close but no cigar" sporting moment, I have often wondered what lurks behind that familiar yellow and blue façade. For, having written about construction and demolition for long enough to see West Ham relegated and promoted at least four times, I had never been granted access to Carey Group's headquarters. To the best of my knowledge, I have never upset them, and they are far from aloof. But this is a company that has never really craved media attention because, frankly, they just do not need it. However, when my friend Ryan Lee joined the company, I seized the opportunity for a glimpse behind the curtain.

## Minimalist Haven

At first glance, the near-empty plant yard, near-empty workshop and head office building configuration of the Carey Group headquarters is in keeping with demolition companies large and small, the world over. But the empty plant yard speaks to a company that is seemingly constantly busy; a company that takes care of its plant and vehicles meaning the workshop echoes to the sound of Capital Radio and not much else.

And yet even this does not fully prepare for the headquarters itself. A modernist reception area leads onto an open plan office, the likes of which I have never seen in the world of demolition. Several hundred people, only some of them employed by the company's demolition division, sit at clean and tidy workstations equipped with the very latest computer technology. The walls, where there are walls, are emblazoned with inspirational quotes including, appropriately: "Set some goals, then demolish them". At the far end of this huge space rises an open plan boardroom, which boasts every multimedia tool you could hope for and looks down upon a company nerve centre that hums with quiet activity.

This is a demolition company headquarters where staff look forward to the start of the working day and from which they are in no hurry to leave. This is certainly the case with Ryan Lee. After the guided tour of the main office, he leads me below deck, past a well-equipped staff gymnasium, to a subsidised staff canteen and a damn fine sausage sandwich. "Because I live quite a way away, I generally get to the office really early to avoid the traffic," said Lee. "But the canteen is constantly open, and whatever time I arrive, the place is already buzzing with activity."

## Home from Home

Head offices are one thing; site offices are generally another. Not so in the case of the Carey Group's TE Scudder contract that is redrawing the town centre landscape of Reading in Berkshire. For the duration of the 33-week demolition of the derelict Friars Walks Shopping Centre and the neighbouring 14-storey Western Tower, its accompanying bingo hall and a bus garage that runs beneath, the company has taken over part of a neighbouring office block. This too is equipped to an almost palatial standard, complete with fine wood boardroom table and multimedia presentation capability for head office quality client meetings. And the walls replicate those inspirational quotes from the company headquarters.

Such trappings and niceties do not extend onto the site, part of a £500M (€700M) redevelopment of the town centre around the railway station. The site boasts enough dust suppression to turn the Sahara into a bog; and the lead excavator is a veritable Swiss army knife on tracks.

The entire demolition process has been designed and engineered via a three-dimensional plan created by one of the CGI team. "We use the CGI in a number of ways," said Carey Group business development manager Shaun Rowberry. "We use it initially to develop and engineer the safest and most-effective demolition method. We use it at pre-tender stage to demonstrate the proposed demolition process to the client and to satisfy them that we have fully understood their requirements. Once on site, the CGI is used in daily and weekly planning meetings and in site inductions for new members of the team, so everyone can see precisely what we are looking to achieve."

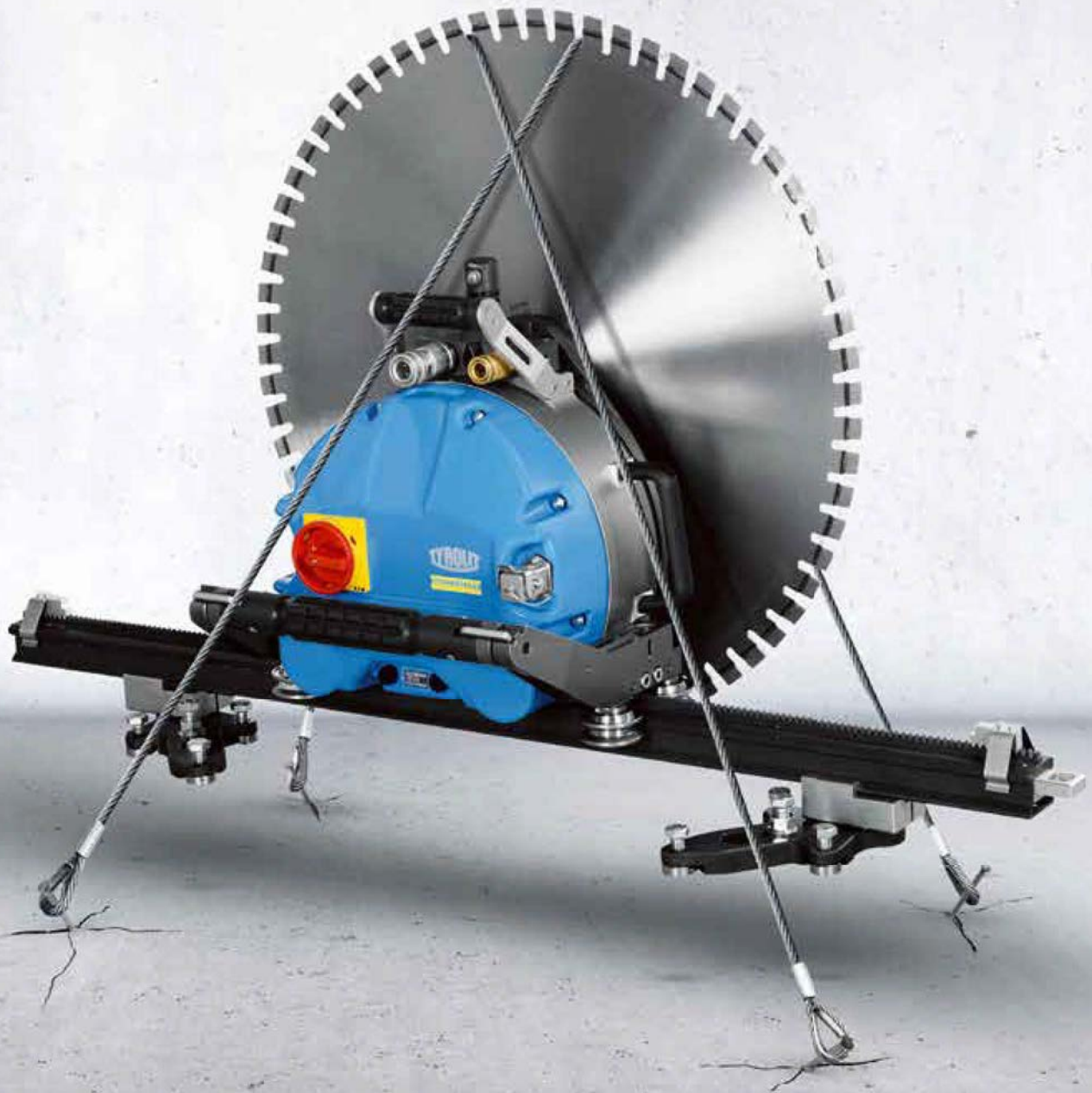
## Complex Programme

The company will require the entire project planning capability at its disposal on a contract that is a picture of complexity and finite scheduling. The Armac high reach is responsible for removing a parade of shops to make way for a temporary entertainment park that sits in the midst of the 1.6 hectare site. Western Tower will be brought down using floor-by-floor top down methods. Adding to the complexity of the process is the presence of a bingo hall and a bus garage that runs beneath, which have asbestos within some of the concrete beams. And then there is the propping then dismantling the Garrard Street Bridge that formerly linked the shopping centre and adjacent multi-storey car park to the town centre's main pedestrian area.

For all the complexity, the site exudes an air of controlled calm and of carefully choreographed processes. This, then, is demolition on another level. The UK demolition sector boasts a number of extremely impressive and admirable businesses. But if you are looking for the sector equivalent of a Blue Chip construction company, this is about as close as you are likely to get.



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## REFERENCES

SSAB Luleå, advanced high reach demolitions, asbestos decontamination, since 2007.

Wivsta varv, factory demolition for M-real.

Mussalo power plant, on going.  
Concrete: approx 50 000 ton  
Metals: more than 10 000 ton

Koverhar steel factory, 2014-2016.  
Concrete: 20-30 000 ton  
Metals: more than 50 000 ton

Äänekoski power plant, on going.  
Concrete: approx 55 000 ton  
Metals: more than 10 000 ton

OP-Pohjola Bank/Insurance company headquarters and office. Ended 2013.  
Concrete: approx 70 000 ton  
Metals: more than 10 000 ton

Apartments/parking houses Umeå.

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