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**new**

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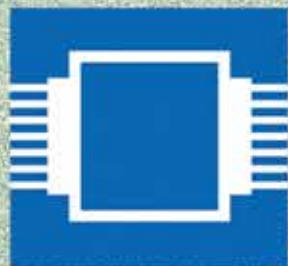
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"Building strong attachments is our business"







## Looking forward to Demtech India and the inauguration of IDA

Anyone who opens the newspapers these days and reads the news must feel like they are in a film of bygone years. Threats, splits and radicalisation are everywhere, and it makes me sad to read that we haven't learned anything from the past. Where are the values that make up a healthy civil society and economy; what has happened to reliability, moral courage and above all mutual respect?

With that in mind, I am looking forward to my visit to Demtech in India, where we welcome a new member to the concrete sawing and drilling family, namely the Indian Demolition Association (IDA). What does this mean for me? Well, this means that a national association is being founded in a new country and competitor companies are pulling together to build a recognised organisation. From this, it also means that our specialist technologies are being recognised further afield and worldwide. With this, more emphasis is being placed on the quality of work in decommissioning, bringing standards that apply to both the contractual work done, and to staff and operator training. This makes me very pleased because it shows that our small and very specialist industry is taking the right path, with the right approach. And this being at a time when so many people just think 'me first'.

So as president, I am pleased to welcome a new member of the IACDS, which can only mean a huge step forwards for our industry based on strength, togetherness and unity. Along with this, I am also looking forward to presenting and introducing the IACDS to the IDA and the Demtech show. This will help spread the word further to new companies, people both inside and outside of our industry, and helps us share our IACDS values. It is through working together, our mutually shared ethical values and the sharing and gathering of knowledge that we can present a combined approach as an international association at the conference in Mumbai on 13 November.



**Michael Findeis, President of IACDS**



## Allu holds first ever South East Asia dealer meeting in Thailand

Allu held a meeting of its dealer network for South East Asia during May of this year with representatives from five dealers attending the Thailand event.

In order to provide customers with the very latest developments in Allu's increasing solutions portfolio, representatives from five countries came to Thailand in May for Allu's first ever dealer meeting focusing on South East Asia. During the meeting, the dealers enjoyed a series of events aimed at providing them with the latest developments and application thinking concerning the Allu product lines. In addition to seminars and workshops, Allu product and service experts

were also on hand to provide advice in order to help the dealers assist their customers.

The dealer meeting is part of an ongoing support program Allu intends to hold throughout 2019 aimed at helping its dealers help their customers. Training, product support, applications guidance and proactive servicing workshops are constantly held throughout the world by Allu specialists for its dealers and customers. The dealers attending the SE Asia event were Alluxindo from Indonesia, Master Engineering from Thailand, Powerram from Malaysia, MB Rock Equipment Services Inc. from the Philippines and Global Heavy Equipment from Vietnam.



## Entries open for 23rd SaMoTer 'Innovation Awards'

The SaMoTer international construction machinery exhibition will be held from 21 to 25 March 2020 at the Verona Exhibition Centre. Entries are now being accepted for the shows 'Innovation Awards', with the closing date being announced as the 28 October 2019.

The leading Italian show's awards contains ten sections welcoming entries from construction companies, official manufacturer representatives or importers, research institutions and bodies, universities and professionals active in the world of construction and building site machinery. The ten competition sections consist of hydraulic excavators, wheel loaders, track laying bulldozers, skid loaders, backhoe loaders, graders, telehandlers, attachments, software applications

and installations. Entries must consist of machinery, equipment or prototypes that are genuine innovations or improvements making their debut in the Italian market in 2020.

The competition jury will assess innovations such as solutions for energy efficiency, production optimisation, elimination of ergonomic or operator safety problems, and sustainability in construction and use. Additionally a special design prize will also be awarded. The winners will be invited to attend and be the main focus of a 'B2Press' initiative, which includes a prize giving ceremony held in Verona on the evening of 23 January 2020. On the following day, 'speed date' meetings with journalists from the international trade press will be arranged.



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## Let's come to our senses

Politicians of all colours and opinions come up with some strange ideas, but when I heard President Trump's latest 'brain wave', my initial reaction was, "What the heck did he think about? Buying Greenland from the Danes?" That was really unconventional, but then again that is Donald Trump. The opinions of the native population, the Inuit, don't seem to have entered into the equation, though I am sure they would like a say in this matter too. The rather amusing thing is that Donald Trump on the one hand wants to close the border to Mexico, and with the other hand he wants to buy Greenland that is populated by some 60,000 people.

Is this all some kind of clever strategy to create a feeling of instability? There is so much instability in the world anyway with the UK unable to resolve its Brexit question, which is keeping the rest of Europe 'on hold' so to speak. May be in the end the UK will not be able to leave the EU due to the complex political situation and there will have to be another referendum. Then there is the President of Brazil, Jair Bolsonaro, letting the Amazon burn and blaming it on environmental groups. To me it seems very strange and highly unlikely that any environmental organisation would set fire to a forest like the Amazon. At the recent G7 meeting it was decided to donate €22M to help stop the wildfires. Let's hope these monies go to the right people and the fires get stopped.

Yet there is still more uncertainty; at first Bolsonaro did not want the European money, but now it looks like he has changed his mind. Another Bolsonaro idea, which to me as a Christian I find hard to understand, is that he is set to reduce state cultural support by around 80% as he thinks the media gives too much coverage to gay and transgender people and issues. He claims that this is due to his Christian beliefs. For me, as a Christian too, I believe that people are what they are, and we should let people live their lives as freely and positively as possible. Instead of being bigoted and let anger and hatred consume us, we should focus on important issues such as world hunger, human rights, the greenhouse effect, etc. As to Bolsonaro's decision, it led to the Minister of Culture resigning and there have been huge protests on the streets of Brazil.

If all this madness wasn't enough, now we are seeing mainly 'old' men more or less bullying a young and concerned 14 year old girl for having the temerity to be outspoken about the world's destiny. Yes, I am referring to Greta Thurnberg, who is actually taking action about some very important issues. She is sometimes rather extreme I admit, but we need people like these, and if that means taking a sailing boat across the Atlantic Ocean instead of flying to highlight the emissions caused by too much airplane travel, then it at least makes us all think about the world and its problems, and the actions we follow.

Personally I find it admirable that young people are trying to do something about the state of the world. My own two sons even chastise me if I let the water from the tap run for too long. They actually come and turn it off and say, "Think about that our fresh water resources are limited." When I grew up we thought fresh water was infinite, but now we are increasingly aware that is not the case, and the conservation of water, amongst other things, is a major concern. I really believe that there is hope for the world if we listen to the younger generation, as I am not sure if my own is acting too sensibly.

I don't like to involve politics in this column, but sometimes I feel there is a need to say something when I have the advantage of being able to make my voice heard. Demolition and recycling after all are directly concerned with maximising

the world's resources, reusing what was once discarded. And as the rest of the magazine is about the bolts and nuts of the industry, then maybe the readers of this column will indulge me for voicing my own highly personal thoughts and opinions. If you feel that anything I have written is wrong, and I am out of line, you are very welcome to reply.

Jan Hermansson  
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## Bobcat loaders win LCO award

Bobcat's T590 compact track loader has been awarded a 'Lowest Cost of Ownership' (LCO) award in the 'Loaders Compact Track' category in awards organised by EquipmentWatch.

The LCO awards are the industry's only accolade of their kind, based on empirical data regarding the long term cost of heavy and compact equipment. They are organised by EquipmentWatch, a world leader in data, software and insights for the heavy equipment industry. Nominees are recognised within 15 different categories of machine that exhibit the lowest cost of ownership over a five year span.

The T590, recognised in the awards, compact track loader has an operating weight of 3,548kg, a rated operating capacity (ISO 14397-1) of 971kg and a tipping load (ISO

14397-1) of 2,774kg. Also recognised in the awards was the Bobcat S70 skid steer, winning the 'Skid Steer Loaders Small' category for the second year in a row. The S70 is the smallest model in the Bobcat skid steer loader range. With a width of 901mm, a height of 1,814mm, an overall length with standard bucket of 2,472mm and an operating weight of only 1,268 kg, the S70 is designed for compactness, transportability and manoeuvrability.

The T590 and S70, like all Bobcat compact loaders, are equipped with the quick change 'Bob-Tach' attachment mounting system, allowing them to be combined quickly and safely with a very wide choice of Bobcat attachments. This delivers versatility and time saving efficiency across a range of different applications.

## Over 22,000 visitors attend bauma CTT Russia 2019

bauma CTT Russia is the country's leading international trade fair for construction equipment and technologies, and saw 22,726 visitors attend over the four days of the June show.

bauma CTT Russia celebrated its 20th anniversary this year, and has been part of the bauma group of international trade shows of Messe München. The exhibition occupied 55,000m<sup>2</sup> at the Crocus International Exhibition Center in Moscow, thus making it the largest industry event for this sector in Russia. Visitor numbers were similar to last year's event, but there were a noticeably higher number of decision makers among the trade visitors this year.

603 companies from 19 countries exhibited at the show, with 334 exhibitors, more than ever before, coming from outside Russia. Alongside Russia, the largest contingents came from China (189 exhibitors), Germany (44), Italy (35), and Turkey (34). Many leading international brands were represented including Doka, Wirtgen, XCMG, Sany, Putzmeister, Volvo, and MAN.

The bauma CTT Forum also provided an assessment of the development of the Russian construction machinery market. There is a reported need for suitable equipment and services for infrastructure development, including road construc-

tion, in Russia, with many projects set to be completed by the end of 2024. The forum also tackled such issues as the rental and leasing of construction machinery.

For the first time 'Construction Equipment Innovations in Russia' awards were presented as part of a competition for innovative solutions in construction machinery in Russia in seven different categories. The winners were: Schwing Stetter in the category 'Concrete Pump Truck of the Year' (winning innovation: Schwing S36X), Galichanin in the category 'Mobile Crane of the Year' (KC-55721-1B, Pioneer range), Giraffe and Manitowoc in the category 'Tower Crane of the Year' (TDK-40.1100 / Potain MCT385 L14), DST-URAL in the category 'Bulldozer of the Year' (TM10 GST12), Volvo and MAN in the category 'Dump Truck of the Year' (A 60 H / БЦМ-59), Volvo in the category 'Wheel Loader of the Year' (L260H), and Hyundai in the category 'Excavator of the Year' (R300LC-9S).

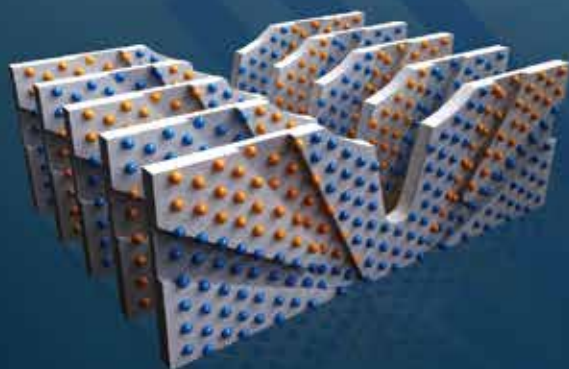
bauma CTT Russia 2019 was supported by numerous trade associations, including the Russian association AEB, the Spanish association ANMOPYC, CCMA, CCPIT, and CMEC from China, the European association CECE, UNACEA from Italy, as well as the German VDMA. The next bauma CTT Russia will be held from 26 to 29 May 2020.



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## Words from the EDA President

### Here we go again: INDUSTRY 'THINK TANK' 16 OCTOBER

When we work together and share our expertise and knowledge, we all grow. This is the philosophy of the 'Think Tanks' we have been organising since 2014. Our industry is constantly changing and growing, with deconstruction activities developing, waste materials being reused as construction products and being transformed into new resources. With these and many other factors constantly changing means that we have to be constantly one step ahead.

After the good experience we had last year with the 'Think Tank' organised jointly with CECE, this year we come back again with an edition focused on the future which aims to analyse trends and challenges in demolition. This will be held on 16 October, and I look forward to welcoming all interested parties to Brussels for the fourth 'Think Tank', titled: 'Equipment for demolition: trends & challenges'. Collaborating with CECE once again allows the debates and talks to be more productive, bringing a professional vision of the construction sector. As a highly regarded organisation representing and promoting the European construction equipment industries, the CECE's contribution is essential in order to make any dialogue more constructive.

The most rewarding aspect of the format of the 'Think Tank' is that attendees can exchange their opinions and experiences, which makes the activity very useful in order to get a global view of movements in the demolition industry. If you have been to one of our events in the past, you will know that time

is set aside for informal networking, facilitating the exchange of experiences and ideas. It has been found that by dealing with issues both formally and informally, person to person, we can share first-hand knowledge about problems, solutions and successful experiences they have had. This work, which is done in the workshop and outside it, is what moves the industry forward.

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

**EDA**  
EUROPEAN  
DEMOLITION  
ASSOCIATION



### Hilti innovations win product design awards

Hilti product designs have won 'Red Dot' and 'iF' design awards with both competitions citing the DX 9-HSN, a fully automatic powder actuated 'nailer' for fastening profiled metal sheeting to steel decks. Both the juries of the product design competitions primarily assessed all submissions according to design and ergonomics, degree of innovation, product quality and functionality.

In addition to the DX9-HSN, a second Hilti tool received both the Red-Dot and iF awards, namely the PM 40-MG multi line laser, used for plumbing, levelling, aligning and squaring when installing drywall, supply pipes and cables runs. Hilti's metal blade 'Axicon' technology ensures that the tool stands up to construction site conditions by protecting all sensitive diodes and prisms against being dropped and rough handling. A Red Dot Award was given to the

new TE 60-A36 cordless combihammer. The modest weight and low level of vibration generated by the tool ensure precise and comfortable work over a lengthier period of operation. The SC 60W-A36 cordless circular saw, which also exhibits ergonomic balance suited to longer operation, also received a Red Dot Award. This tool features a fast acting blade brake and minimised kickback for added safety.

The Red Dot jury also honoured the Hilti TE-SPX Polygon pointed chisel, which solves three separate problems. The chisel's thicker flanks help to prevent it from getting stuck in concrete, and the waveform edge not only reduces the risk of snapped chisels by 35%, but also increases chiselling performance by 15%. Furthermore its 'flower' shaped cross section helps prevent dust from becoming airborne, leading to a healthier working environment.

### Doosan Bobcat announces new leadership team

**Doosan Bobcat has announced the appointment of regional presidents, a new global organisation, and leadership structure. In this, the newly created global groups, Engineering, Procurement and Strategy, work across all regions to fully integrate and leverage the power and scale of the company.**

Mike Ballweber, the new president of Doosan Bobcat North America, has been with the company since 1998, and has served as senior vice president of Commercial for Doosan Bobcat North America since 2016. Ballweber replaces Doosan Bobcat chief executive Scott Park, who has served as interim president of North America since September 2018. Ballweber served as president of Doosan Portable Power from 2013 to 2016, and was vice president of Product Management and Strategy, and vice president of Aftermarket and Product Support for Doosan Bobcat North America.

Doosan Bobcat announced additional senior leadership roles to lead the expanded global structure and help enhance and streamline the company's focus on engineering, procurement, and strategy globally.

Gustavo Otero, has been appointed Doosan Bobcat's new president for the Europe, Middle East, and Africa, joined Doosan Bobcat in 2015, and most recently served as region vice president of Compact and Telehandlers. He has an extensive 15 year background in the global construction equipment and automotive industries.

Troy Kraft, is the new senior vice president

of Global Engineering, having led engineering for Doosan Bobcat North America for nearly 12 years. He is responsible for global compact equipment product development, product safety and international standards. Kraft's career in the compact equipment industry spans 30 years, and he has served as a key member of the Doosan Bobcat engineering team for decades.

Alvaro Pacini, senior vice president, Global Procurement, is responsible for global procurement functions including regional governance and commodity strategic management. He has an extensive, 30 year background in the construction equipment and automotive industries, including experience in operations, strategy, sourcing, supply chain and total quality management.

Kraft and Pacini join Youngmin Kwon senior vice president, Global Strategy & Operational Excellence/Total Quality Management, as members of the Doosan Bobcat global function leadership team. Kwon has responsibility for global corporate and manufacturing strategy and total quality management throughout Doosan Bobcat, joining Doosan Group in 2000, and has more than 25 years of industry experience.





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## First Bobcat electric excavator

Bobcat has announced that the first of the company's new E10e zero tail swing (ZTS) 1t electric mini excavators has come off the production line at its Czech factory located in Dobris.

Finished on 11 July 2019, the first E10e off the line is headed to the Netherlands to the authorised Bobcat dealer, Apeldoorn based Inter-Techno. Here it will be used as a demonstration machine and is available for hire from Inter-Techno's partner company, 123Machineverhuur. Doosan Bobcat has chosen the Dobris factory to produce the E10e for all markets worldwide, with the first machines to be sold in EMEA (Europe, the Middle East and Africa), with North American and then Asian markets to follow. The Netherlands, Sweden, Germany, Austria and Norway are the first to be selected in Europe, in line with research that shows the highest demand is located in these countries. Subsequent sales of the E10e in other countries will depend on the readiness of markets, dealers and the demand from customers.

The E10e is built on the same platform and produced on the same production line as the highly successful diesel powered E08 and E10z mini excavators. This line currently has a total capacity of 2,000 machines a year, being able to produce the required mix of diesel and electric models as dictated by actual market demand.



## Hilti ranks among Europe's best employers

Hilti has once again been recognised as one of the best employers in Europe by the 'Great Place to Work Institute'. This year, the construction technology group ranked 24th in the category of multinational companies. The anonymous surveys carried out by Great Place to Work showed that employees particularly appreciated the wide range of international development opportunities across all corporate units. Hilti also received high marks on such topics as work life balance, diversity and equal opportunity.

# Rockwheel owner to buy Hartl Crusher

Rotary cutter manufacturer Rokla has expanded into the crusher and screening bucket sector with the acquisition of Hartl German rotary cutter manufacturer Rokla GmbH, which operates under the Rockwheel name, has announced its acquisition of Austrian crusher and screening bucket specialist Hartl Engineering & Marketing GmbH. The deal, which became effective on 27 June 2019, includes the use of the Hartl brand, inventory and intellectual property. No redundancies are expected as a result of this announcement, and the sale price is not being disclosed. For clarity, the Hartl family's Modular Solutions Division is not included in the deal.

Based in Langenburg, Germany, Rokla has been manufacturing and marketing rotary cutters under the Rockwheel brand since 2013, and has been ranked among the fastest growing construction equipment companies in Germany. "The market for Hartl's product offering has developed well in recent years and this acquisition promises to further strengthen Rokla's position as a leading supplier of excavator attachments," says Robert Piasecki, managing partner of Rokla. "Rockwheel and Hartl products are particularly complimentary, making the rationale behind the deal even more compelling for customers."

Dominik Hartl said of the acquisition: "With Rokla we have found the ideal buyer. It is a dynamic and owner driven company that is a

market leader in its respective segment. We are confident that Rokla will help deliver Hartl further success, benefiting customers, distributors and suppliers alike." Alexander Hartl further commented that the rationale behind the decision to exit the attachment segment was to free up resources to concentrate on the family's expanding Xelctrix energy storage brand.



## New location and official company name for Rockster

Kormann Rockster Recycler GmbH has acquired a 10,000m<sup>2</sup> production facility in Neumarkt im Mühlkreis (Upper Austria), to deal with continuous growth and market demand.

The new facility is located in Matzelsdorf, in the municipality of Neumarkt in Upper Austria, being acquired in January of this year in order to double Rockster's production capacity. As part of the relocation, the company name, Kormann Rockster Recycler GmbH, has also been changed to Rockster Austria International GmbH in order to accentuate and better define the international nature of the company, its needs and future goals.

Rockster has not only invested in a new company facility, but also plans on hiring up to 20 new employees. Chief executive Wolfgang Kormann expects the relocation to offer improved growth potential due to the

availability of a larger space, but also offer the same development opportunities to employees. "One of the main reasons for investing in this part of Austria was the experience with employees that are from this very region called 'Mühlviertel'," says Wolfgang Kormann. "They are known as loyal and diligent people with a positive attitude. In addition, I think it will be better to decentralise companies in the future, as the quality of life of employees will increase, thanks to better work life balance. We want to create a modern production location where our employees feel bound and comfortable."

The first machine rolled off the assembly line in Neumarkt is the track mounted impact crusher R1000S. Since mid-June, most of the relocation has been completed and the Rockster team is highly motivated to start a new chapter in the Rockster story.

## Change in Hilti's Executive Board

It has been announced that Marco Meyrat will leave the Hilti Executive Board at the end of the year and join the Hilti Board of Directors and the Martin Hilti Family Trust. He will be succeeded as of 1 January 2020 by Joaquim Sardà, currently head of the Southern Europe region.

Marco Meyrat started in 1989 as a product manager in direct fastening at the Hilti headquarters in Liechtenstein. Important positions held during his thirty year Hilti career included leading the market organisation in Switzerland and Germany. In 2005, he became a member of the executive board responsible for worldwide sales and marketing. Since 2017, he has been responsible for the region North America and the emerging markets. After 15 successful years on the executive board, he will become a member of the Hilti Board of Directors and Trust as part of long term succession planning.

Joaquim Sardà, a Spanish native and father of three children, has been with Hilti for 15 years in different positions. He started in corporate development at the headquarters then later held multiple management positions in sales in Italy and Germany. In 2012, he took over as the head of market organisation Italy. With his team, he successfully established the new region 'Southern Europe' achieving a significant turnaround in Italy.



## Hatz awarded with 'Highest Reputation' seal of approval

Hatz has been awarded the 'Highest Reputation' seal of approval by the Deutschland Test and business magazine Focus-Money. Over 5,000 German brands from over 150 sectors were analysed by the Institute for Management and Economic Research (IMWF) in a 12 month period from March 2018 to February 2019. The evaluation took place focusing on the areas of sustainability, management, employer performance, profitability, products and service. Companies that achieved at least 67 out of 100 made it onto the list of the best rated. In the mechanical engineering category, only 129 companies made the grade, including Motorenfabrik Hatz with 78 points.

"The entire workforce, including the management team, usually has a personal opinion of their own company's reputation. In the past, Hatz has always received good feedback both internally and from business partners as well as customers. The large number of visitors, and the feedback (received) at bauma 2019, were also very positive. The icing on the cake is an official confirmation of our excellent reputation, and we are delighted that we scored excellently in the Deutschland Test. One more reason for us to continue and strengthen our strategy and our commitment," says Bernd Krüper, chief executive of Hatz.

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## Circular business and green economy at Ecomondo 2019

Ecomondo 2019 will be held this year from 5 to 8 November at the Rimini Expo Centre and organised by the Italian Exhibition Group. This is aimed at trade and industry members interested in the cross sectoral industrial symbiosis of green and circular economies, with key players including both public and private organisations and bodies. Held simultaneously with Ecomondo will be 'Key Energy', concerning renewable energies, and Sal.Ve, the triennial waste vehicle eExpo, and will also host the annual appointment of the States General of the Green Economy. As a leader in the Euro-Mediterranean area for the circular economy and promoter of innovation for enterprises of new business models, Ecomondo has developed as a platform for new legislation, managing and planning

initiatives and for green economy business models. This has been accomplished under the auspices of the Technical Scientific Committee chaired by Professor Fabio Fava of the University of Bologna.

Innovative technology for the integrated management and exploitation of material to improve the efficiency of manufacturing processes will be focused on, including the recycling of waste typical of a linear economy to an established circular economy system. For Circular Bio economy, the spotlight will be on EU regulations aimed at limiting and eliminating disposable plastic products. Another expo macro sector is that of the remediation of contaminated sites and their consequent requalification. Lastly, the integrated wastewater cycle, will have increased exhibition

space featuring enterprises concerned with the water cycle, from its sourcing to its return to the environment. In the expo area there will also be a focus on the use of water in agriculture, and a seminar on sustainable irrigation held by two members of the Water Technical Scientific Committee, Francesco Fatone (Marches Polytechnic University and International Water Association - IWA) and Attilio Toscano (University of Bologna).

Ecomondo will again feature Italian and international start-ups, and is held in collaboration and with the support of Aster-Emilia-Romagna Region, the Knowledge Innovation Community of the EIT (Climate, Raw Materials and Innoenergy), the University of Bologna and Confindustria Giuseppina Mai Foundation.

## New main distributor for Scanmaskin in Norway

Normann Olsen Maskin AS, Norway's largest supplier of grinding machines, is now collaborating with the Swedish company Scanmaskin Sweden AB, which is one of the Nordic region's leading suppliers of grinding machines, associated machinery and diamond tools. "The product range of Scanmaskin has shown year after year that they keep the quality we seek from our suppliers. With their latest 'World Series' range, with which they won last year's innovation award at the Swedish Decontamination and Demolition Fair Demcon, they have shown us and our customers that they are a leading player," says Joh Einar Solhaug, CEO of Normann Olsen machine.

Norman Olsen Maskin AS has thus become the main distributor in Norway for the entire Scanmaskin range, consisting of grinding machines, diamond tooling, industrial vacuum cleaners, scarifiers, shotblasters, power trowels and floor strippers. "For us, it has been important to find a partner who can listen to our users and give them the right support. Through Normann Olsen's long experience in floor grinding, we are convinced that we will be able to offer the Norwegian market a comprehensive supplier for successful floor projects," says Paulo Bergstrand, CEO of Scanmaskin Sweden AB. Normann Olsen Maskin AS has market share of approximately 60% for grinding machines in Norway and looks forward to further increasing sales and product range through the strategic collaboration.

## AN HISTORIC YEAR FOR THE INDIAN DEMOLITION INDUSTRY

The Indian demolition industry started to become more professional in the year 2000. During the last decade, the industry has been booming, and continues to grow rapidly. It all started in the big cities such as Delhi, Mumbai, Bangalore, Chennai, etc., but is now moving across India. A very exciting time is being experienced with new techniques and methods being constantly implemented.

I remember when I first entered this industry in 1997 it was quite a challenge being a demolition contractor at that time. No one could believe that I could drill through concrete, but today, with access to so much professional equipment for demolition and recycling that remediation and concrete sawing and drilling operations have become so much more efficient. We now also have completely different legislation in India concerning safety, the working environment, the handling of waste and rubble, with the Government in 2016 passing legislation for the handling of C&D waste.

The high pace of the construction of new apartments, offices, airports and metros, as well as the general expansion and improvement of the infrastructure, has also demanded new and more efficient methods and techniques to keep up with the development plans for the country. Also many of the old very large power plants are being scrapped; this requires expertise in large scale safe demolition. It is great to be part of this movement in such a vibrant country that India has become during just the last decade. When I started there were no professional demolition companies in India, but today we are over 200, with around 4,000 employees working across the nation. On top of these, some 1,000 medium and small contractors should be added. In line with the increase in jobs, purchasing power has also increased radically.

It has for years been a dream of mine that together with colleagues in the field, that we should form the first Indian demolition association. Now we are finally there, and I think

the country is ready for it. The framework for the first Indian demolition association, with its official name, IDA Demolition Association, is now established. A number of large Indian demolition contractors have already come together to draw up the guidelines and to plan the official opening of the association. This will be held in Mumbai, on the 13 November this year. Additionally we will all come together at the first Indian demolition conference, Demtech 2019, which will be held at the Sahara Star hotel.

This conference is something the whole industry has been waiting for, and I expect a large number of professional players in the field to attend; in my estimation, between 200 and 300 people from the industry. A number of politicians and industry professionals from India will hold lectures, and together with our sponsors and exhibitors, we will take the Indian demolition industry many steps further in just the single day of the conference. We are also very happy for having the support of

PDi Magazine to help spread the news about our conference and the inauguration of our demolition association.

International associations such as the EDA and IACDS are also supporting the event, with the actual inauguration taking place during a gala dinner on the evening of 13 November. Make sure to be part of this historic moment for the Indian demolition, recycling, remediation and concrete cutting industry. You can find out more information at [www.demtech.in](http://www.demtech.in).



**Mohan Ramanathan**  
Indian demolition contractor and founder of Demtech and the IDA Demolition Association.



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## Epiroc 'Bio' chisel paste now supplied with new hydraulic breakers

As part of Epiroc's aim to help protect the environment, all its new hydraulic breakers are now delivered with Epiroc Bio chisel paste. The formulation is approved by the European commission for use in environmentally sensitive applications.

Used to grease the wear bushings in breakers, Epiroc Bio chisel paste is based on special synthetic esters that are easily biodegradable. The paste helps prevent bushing wear and prolong working tool life. Tailor made for hydraulic breakers, Epiroc Bio chisel paste gives good performance across a wide range of temperatures, from -30°C up to +1100°C.

Epiroc Bio chisel paste is suitable for automatic lubrication on all Epiroc hydraulic breakers with ContiLube™ II Micro or ContiLube™ II, or for manual greasing with a grease gun on Epiroc or any other breakers.

## Allu introduces IoT technology and advanced blade solutions

**Allu unveiled its latest developments and launched new solutions at bauma 2019. These cover a variety of applications, but through the use of the latest technology in the field, the new solutions are set to further transform customer profitability.**

Allu latest developments are aimed at further enhancing customer business operations. These consist of the new and upgraded Allu Mobile App with new functions aimed at helping improve customers' productivity and jobsite safety whilst also providing enhanced customer service. The Allu TS blade structure (with two fragment sizes and a new blade thickness of 8mm) and Allu TS doubling/tripling new blade variations (for combinations of between 8mm right up to 105mm providing more possibilities with one Allu) were also launched.

The latest version of the Allu Mobile Application provides a digital solution for customers and operators to obtain accurate and timely information regarding safe operations at jobsites. Using IoT technology, the Allu App provides information about the working hours and the right angle of inclination of the Allu Transformer. In order to maintain maximum productivity on the

site and to minimise equipment downtime, the Allu App provides information about the ideal maintenance frequency and the changing of wear parts based on the working hours.

The Allu TS blades deliver new levels of efficiency and productivity with new blade variations, with the new blade structure further enabling customers to utilise their Allu Transformer in more than one way. At the core of the Allu TS drum construction is the configuration of the screening blades that spin between the screening combs. The end product size is defined by the space between the combs and different fragment sizes can be achieved simply by repositioning the combs. As the screening combs carry most of the material weight, the drums and bearings experience less impact and load, with the design of the assembly ensuring the machine works well in wet and dry materials without clogging. The Allu TS drums are available with two different blade types: standard blades for screening applications and axe blades when a crushing or shredding effect is required.

Allu offers a wide range of blade variations: with the single blade, set up positions two or three blades in a single position, with one screening comb between every blade. The possibilities for blade thicknesses in this assembly are 8mm, 16mm, 25mm and 35mm. With the double blade setup, two blades have the same position moving together with two screening combs between the doubled blades. The possibilities for blade thicknesses in this assembly are 16mm, 32mm, 50mm and 70mm. The tripled blade set up has three blades in the same position that move together. The possibilities for blade thicknesses in this assembly are 24mm, 48mm, 75mm and 105mm. By changing from a single blade setup to one that is doubled or tripled blade, the estimated fragment size can be changed from single to double or triple.



## New variable speed generator from Atlas Copco

Atlas Copco new QAS 60/35 VSG variable speed generator is the latest addition to its QAS mobile generator range.

The low load performance of the QAS 60/35 VSG, which features automatic variable speed control from 950 to 2,550 rpm and an integrated energy storage system, enables fuel consumption levels to be reduced by up to 40% against traditional fixed speed generators. At the same time, it helps increase reliability in applications with an average load of less than 20%, such as construction projects, outdoor events or telecoms service duties. The integrated energy storage system helps increase peak power capabilities by 70%, matching the performance of a 60kVA prime power generator. In addition, the QAS 60/35 VSG enables operators to reduce their carbon footprint by offering CO2 emission reductions of up to 40%.

Fully compliant with European emission standards, the plug and play, environmentally friendly QAS 60/35 VSG is housed in a robust, sound attenuated Zincor steel enclosure that is up to 55% smaller and considerably quieter than the requirements of OND 2000/14/EC sound regulations. It is said to contribute to operators' uptime, productivity and revenues through service efficiency and extended engine lifetimes. A maintenance interval of 500h is made possible by the unit's heavy duty fuel filtration system and water separator.

Moreover, the new QAS 60/35 VSG allows customers to downsize and optimise their fleets, as one unit can replace up to six power nodes of a typical fixed speed generator from 9kVA to 60kVA. With a 1 to 1 ratio motor start capability, the QAS 60/35 VSG is a source of high starting current for the electric motor drives of site equipment such as construction tools, cranes, pumps, or electric compressors. The stable frequency and voltage it produces makes it a suitable option when coping with sensitive loads such as electronics equipment applications.



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## NEW VERSIONS

Atlas Copco has launched new versions of its XAVS 238 and XATS 288 portable compressors with a 27% smaller footprint.

This unique size of Atlas Copco's new 238-288 single axis compressors, which are also 20% lighter, offers users improved flexibility for both transport and usage on site. Both feature the latest Atlas Copco screw element combined with a new engine that contributes to a 10% reduction in energy consumption.

Furthermore, the new models feature the PACE (Pressure Adjusted through Cognitive Electronics) compressor control system, which extends the operating spectrum for a single compressor from seven up to 14bar. Through PACE, one single compressor covers flow demands of up to 16.6 m<sup>3</sup>/min. The compressor oil service interval is extended to 1000h or every two years. In addition, the simple design of the vessel allows operators to change the oil separator within one hour as all service parts can easily be accessed. Overall, reduced service intervention and longer lifetime of consumables life cuts total cost of operation.

The PACE system resides within Atlas Copco's Xc2003 controller, which has an intuitive colour LCD screen based user interface. Operators can change the pressure setting with increments of 0.1bar in three steps. The system keeps track of compressor utilisation, and prompts for planned service interventions. The Xc2003 maintains the compressor's environmental resilience with its IP65 rated dust and water protection. The XAT/VS 238-288 offers a three layer protective coating of all bodywork under corro-sive category C3 which prevents corrosion and further enhances lifetime and resale value.



## Aquajet's revolutionary ceramic nozzles in action

**Aquajet's ceramic nozzles are more than just tough. They're specially designed to offer industry leading longevity, cost savings and productivity to maximise efficiency on even the toughest jobs.**

A ceramic nozzle costs more than its steel counterpart, but each component ensures optimal efficiency. The smoother internal surface produces a longer length of cohesive water jet stream, and a higher coefficient of discharge. By maintaining a narrow path for a longer distance, Aquajet's ceramic nozzles allow users to remove more material with a higher level of accuracy, thereby increasing overall productivity.

Depending on water quality, Aquajet's ceramic nozzles can last more 350h, compared with the 50h lifetime of most steel nozzles. That means users might well spend as much as €900 on steel nozzles before replacing one ceramic nozzle. This results in major savings over the course of a hydrodemolition robot's

lifetime as well as improving jobsite efficiency in terms of downtime.

One US contractor saw the benefit of ceramic over steel nozzles first hand when faced with a tight deadline to remove 6m deep concrete from 1,500 pilings in a swampy area. The contractor employed two Aquajet Aqua Cutter 710Vs with inexperienced crews, and an alternative hydrodemolition machine manned by experienced operators. The Aqua Cutters cleared 21 pilings per day compared to just five by the other machines used on the project. The contractor attributed its efficiency to the quality of the nozzle, with the ceramic nozzles outlasting and outperforming steel nozzles, saving the contractor both time and money.

## Tyrolit cooperates with ToolSense in smart interconnection

Tyrolit is working closely with the Viennese start up ToolSense GmbH and Deutsche Telekom to help connect construction machines.

The 'Internet of Things' (IoT), enables intelligent communication between machines, with Tyrolit now implementing this innovation with 'MoveSmart' technology. "Networked machines and digital solutions are becoming more and more important, also in our sector. We see that our customers need a universal, cross vendor solution. For that, the industry standard with ToolSense and Deutsche Telekom is ideally suited," says Wolfgang Wiefeler, managing director, Tyrolit Construction Products.

Machines that have worked in isolation, and those which have only been used in offline operations, are now centrally connected by one single device. As a re-

sult, the barely digitalised concrete drilling and cutting technology segment has taken a big leap forward. "It is our goal to design the construction site of the future to be networked, fully digitalised and highly industrialised. This requires machines that speak the same IoT language. Only then can the customer realise the desired increase in productivity," states Alexander Manafi, chief executive, ToolSense GmbH.

Tyrolit's WSE1621 compact, reliable and powerful wall saw system is the first to feature MoveSmart technology. The all-rounder with its particularly lightweight system components as well as numerous digital equipment attributes, collects important data for optimal and smooth operation. Via its intelligent communication interface, the data is available anytime, whether in the office or on mobile devices, simplifying work for the user.

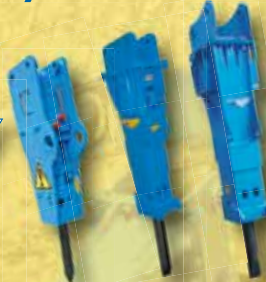
ToolSense enables contractors to react flexibly and quickly as they will always know where their machinery, when equipped with Tyrolit MoveSmart, is located. Furthermore, they can assess which machine was in use, and for how long, whether there was unplanned downtime, or whether a service is pending. All this data supports a more economical and ecological operation and allows customers to plan more efficiently.



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## Epiroc's MB 1650 the centrepiece in Sicobrita machine park

The Portuguese company Sicobrita S.A. has been operating a quarry in the Serra do Sicó near the city of Pombal for more than 30 years, putting its trust in Epiroc's hydraulic hammers since 2005.

Thanks to its location in one of the most important limestone massifs in Portugal, the Serra do Sicó limestone quarry has a large extension in a licence area of approximately 35ha. The company Sicobrita uses precise mining and crushing methods that produce limestone with high purity and a high of whiteness, with effects on the environment always kept as low as possible. Thus the previous hammer used, the MB 1700, the company valued, among other things, the automatic lubrication system, energy recovery, low noise and vibration levels and effective dust protection.

Its new MB 1650 continues to offer all of these features, in addition to being lighter and more compact than its predecessor. The hydraulic hammer can continue to be used in problematic production processes, but at the same time contributes to an easier handling and a reduction in operating costs, being suitable for carriers from 19t to 32t. The performance of the hydraulic breaker is optimised by 'AutoControl', an automatic stroke switch mechanism. The 'EnergyRecovery' feature uses the recoil force of the piston to increase performance, which like the 'VibroSilenced Plus' system reduces vibration. The integrated 'StartSelect' valve allows the operator to adapt the launch behaviour of the breaker to operating conditions in a few simple steps.

The automatic lubrication system and patented dust protection system, and the redesigned service opening, improve the longevity of the components. Lubricant consumption is reduced, dust penetration is prevented and maintenance is facilitated. In addition, the MB 1650 is without a high pressure accumulator, which in turn significantly reduces repair costs. The MB 1650 is a tool designed for a wide range of applications in mining and quarrying, demolition and renovation works on construction sites and in the metallurgical industry.

## NEW DUST COLLECTOR SUPERVAK X3 FROM KLINDEX

The new Supervak X3 dust collector features a built in cyclonic pre-separator and automatic air pulse self-cleaning system. The automatic air pulse cleaning system (ACS) features air blasts regulated by an electronic timer to keep filters clean. A pre-separator cyclone is integrated in the

drum and holds over 90% of dust, collecting it into a plastic bag. The drum is shockproof with a 'futuristic' design, with the motors equipped with Hepa filters. Furthermore, the Supervak X3 is easily transported, has the Longopac system and delivers high performance with three motors.



## CDE launches tech solutions for maximum plant efficiency

*CDE, the wet processing equipment manufacturer, is launching a new range of technology solutions to enable customers to increase the efficiency of their plant, automate processes and lower their operating costs.*

The new CDE 'CORE' smart technology suite includes three key features: an easy to use monitoring system; a digital tool to manage and simplify operator workflows; and a bespoke 3D catalogue of parts which is tailored for each customer's individual equipment. This gives customers greater control of their plant, and means, amongst other things, that resources are being maximised and customers can take immediate action if the efficiency of their plant falls below their desired level.

Tom Houston, director of CustomCare at CDE, said: "CDE CORE is designed to reduce operating costs and give our customers the best return on the

investment they have made in a CDE plant. It uses the latest technology, with a simple to use interface, and we believe it will enhance CDE's reputation of being the disrupters and innovators in the wet processing industry. For customers, it is about having a connected plant that gives them greater control, enhanced operational efficiency, better resource and asset management, and increased ease of operation."

The CDE CORE smart technology suite is part of CDE's CustomCare offering, which includes a dedicated team of regional service engineers who are proficient in the commissioning and ongoing maintenance and optimisation of CDE equipment.



## Two in one fog cannon and HP washer from Idrobase

The new Elefantino Lavaggio 'fog maker' from the Idrobase Group has been developed for the prevention of dust pollution and the washing of polluted surfaces. This May, at the Pulire and Autopromotec 2019 trade fairs, the Idrobase Group will launch the new machine,

which is in effect a 'two in one' cannon with nebulizer and pressure washer function. The Elefantino Lavaggio has been developed specifically for professional high pressure cleaning and nebulization, both cleaning the air and reducing pollution from fine dust (PM10).





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# World's first 1t electric mini excavator from Bobcat

Bobcat has launched what is said to be the world's first 1t electric mini excavator. Combining zero emissions, low noise and a 710mm width, the new E10e battery powered, zero tail swing (ZTS) mini excavator can pass through standard doors and in and out of lifts.

As well as indoor demolition and basement projects, there are many other sites where zero emissions and low noise machines are required such as urban/city centre developments, night time work and contracts in quiet zones such as hospitals, cemeteries and schools. When doing indoor work such as demolition and digging out basements, there are very specific requirements, and until now, there has been no standard OEM solution for such work until the new E10e from Bobcat.

Developed at the Bobcat EMEA Innovation Center, in conjunction with electric vehicle suppliers, the E10e is based on the design of the very successful diesel powered E10 1t mini excavator. The new E10e has the same ZTS profile and identical external dimensions as the standard E10/E10z machine, and offers equal or better performance. As the new machine is designed to be used in demanding indoor applications such as breaker work in demolition, it is equipped with auxiliary lines and an efficient oil cooler system for continuous hydraulic breaker



able undercarriage (reducing its width to 710mm), the integrated foldable TOPS (Tip Over Protective Structure) facilitates passage through openings with low headroom, for work inside buildings and in basements. Once the excavator is positioned and ready for work, the undercarriage on the E10e can be expanded to 1,100mm.

The design of the E10e ensures that the boom offset cannot reach the feet, providing maximum protection in this area. Operator safety and comfort is further enhanced by the completely retractable seat belt on the E10e. The E10e offers the same safety features for operators as the E10/E10z. With its safe, near silent, zero emission transmission, the E10e electric mini excavator expands the successful features and high performance of the E10z for working in confined spaces.

operation. The cooling system capacity has been increased to meet extended demolition application requirements.

The E10e has a lithium ion, maintenance free battery pack with an advanced management system, designed to fit within the standard machine envelope to maintain the machine's ZTS profile. Based on customer studies, Bobcat has optimised the battery pack to provide capacity to match typical work patterns.

Like the E10/E10z, the E10e is easy to transport, and in addition to the access provided by its retract-

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Dan Chimingeru, Stefan Illie, Ion Fratila and Youssef Hallak from LT Diamond Drilling in Bucharest, Romania.

A MAN

# without borders

***Back in Sydney 20 years ago, he was known as the ‘Road Runner’, the industry’s best wall chasing contractor which saw him run one of the biggest concrete cutting firms in Australia. Today his target is the Middle East and Europe. Meet Youssef Hallak from LT Diamond Drilling.***

The concrete demolition, sawing and drilling business is still a much localised market, meaning that contractors mainly work in their own country, or even only in their own region, with few companies working internationally. There are exceptions, and Youssef Hallak of LT Diamond Drilling Srl in Bucharest is a big one.

## From Lebanon to Australia

Youssef is in his early 40s, but has quite a life story to tell. He is a true professional with a burning desire to learn, improve and explore new fields of technology when it comes to concrete cutting and demolition. And he is never still, constantly on the move. He was born in Lebanon where his family comes from, has one brother and seven sisters. He speaks highly of his parents and his family, his belief in God and true values, which are the foundation of a good life. His father ran his own construction company, which did a lot of work in Saudi Arabia. When Youssef was old enough, he started to work at his father’s company in Jeddah, and at the age of 20 decided to get an engineering degree at a university abroad, choosing Australia for his education. “I heard a lot of good things about Australia, but I had never visited the country before. It took me a while to get the student visa but was picked as one of 50. But as soon

as I had it I went and started to study at a university in Sydney,” says Youssef.

After several years of working in the construction industry in Saudi, and ready for learning new techniques and methods, Youssef found out that all installation

channel work at a construction site in Australia is done after the walls and floors are completed with so called wall chasing techniques, which is seldom seen in Europe or the Middle East. In Australia there was great demand for wall chasing, but not many specialists to provide it. Youssef realised that if he became really good at it he could make quite a lot of money, doing it faster and better than the Aussies. He learned the technique, and invested in the equipment, and it did not take long before he got his first commission. Soon he became well known for his services in the Sydney area, and he even got the nickname ‘Road Runner’. He could make 400m of wall chasing per day in straight cuts, and he always cleaned after himself, which normally was not included in the service of other wall chasing contractors. “When I completed a job I used to write ‘Road Runner was here’ on the wall,” says Youssef with a smile.

It was while working with wall chasing he came in contact with the concrete sawing and drilling business and realised that these methods was something he could use. In 2000 he started his own company in Australia, and by acquiring two colleagues, Leo and Theo’s Company, the business grew. The LT in his company’s name actually stands for Leo and Theo, and at that time in Australia LT Diamond Drilling was one of the five biggest concrete cutters in the country with the company



Demolition at a glass production plant.



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Decommissioning at a nuclear plant in Romania.



Floor sawing with equipment from Diamond Products.

growing fast. “Ever since I was a small boy I have understood the importance to deliver the best quality in work and as fast as possible. And never say no to a job at any time. That has helped me a lot in my business,” says Youssef, who mentions one particular situation in Sydney. There was a big oil leakage in the Sydney harbour that needed a skilled concrete cutter to fix the leakage. The leakage happened during a weekend, and the harbour authorities could not find anyone to fix the job until they called LT Diamond Drilling. “We said yes of course and fixed the leakage. The project became one of our most well paid projects ever and gave a very strong position on the market.” Today the market is flooded with concrete cutters but LT is still a big player.

#### To the Middle East and Europe

Youssef had a bigger plan for his life and his company, as he wanted to explore more markets and was always open to take on new assignments. In 2005 he was offered a project in Singapore, which led him and his company to Dubai the year after. While working in Dubai he set up a subsidiary in order to work in the whole Middle East region. The following years LT were hired to do several projects at military defence stations in Saudi, Iraqi, Dubai and Lebanon. This area was really boom-

ing until it came to a stop in 2011, but the following year, 2012, life took a new turn for Youssef. During a business trip in Romania he realised that the country was a perfect hub for taking on jobs in Europe and the Middle East. The business in Australia was doing well on its own, enabling Youssef to concentrate on new business in the Middle East as well as slowly looking at jobs in Europe. In 2015 he settled in Bucharest setting up LT Diamond Drilling Srl, with the company being located on the outskirts of the city, close to the international airport. The LT office and workshop in Bucharest today consists of 600m<sup>2</sup> of offices and workshops, and about the same size of outdoor space, with Youssef hoping to extend the facilities by acquiring a nearby plot or another location nearby.

Today the company in Romania employs 38 people, with 12 of the workers recently arriving from Nepal, a region that right now is suffering from severe unemployment. The company in Australia has around 30 employees, but it does not stop there: LT Diamond Drilling also has a subsidiary in Lebanon with around 40 employees and a branch office in Dubai. All together the LT Diamond Drilling Group has 108 employees, and Youssef estimate that they will reach some 130 employees by the end of the year. Youssef is additionally

in the process of establishing a new office in Moldavia and also one in Syria. “I see a great potential in these areas and I have already visited several times and we are bidding on jobs,” says Youssef.

With 40 employees in Lebanon, more 30 in Moldavia and Syria and 38 in Romania, LT has the resources to take on large scale projects both in Europe and the Middle East being able to easily allocate staff to jobs. The Romanian company has grown rapidly in only four years, and today the turnover lies in the region of €4M. Youssef estimates that the business will grow to €8M in another three years.

#### The optimal working model for success

Youssef believes that he has found the perfect working model for his companies in Europe and the Middle East. “I think I and my management have become very good in finding the right staff. We put a lot of effort in training our staff internally. 10 well trained and loyal employees can do the work of at least 30 untrained. So finding the right people is crucial,” says Youssef. In terms of equipment Youssef says that LT Diamond Drilling was for years a loyal Husqvarna user, but something happened along the way with the relationship. Today the group of companies has a very close relationship with



Tyrolit when it comes to concrete cutting equipment, tools from Arix, Zenesis and Tyrolit, and drill systems from Weka. LT also buys its floor saws directly from US Diamond Products.

Since a couple of years back LT has also invested in robotic demolition, and today only buys demolition robots and attachments from Brokk and Darda. "I am extremely satisfied with Brokk and Darda, and very happy that I found these suppliers. I am also just as happy with our other suppliers of equipment. We have a perfect setup," says Youssef. About a year ago LT in Romania bought a Brokk 110 and Brokk 170 and attachments from Darda. This year he wants to buy a Brokk 300 and Brokk 800 with attachments. LT has a number of wall and wire saws from Tyrolit, about 90 complete drill systems from Weka, and currently 11 fully equipped trucks. The company also makes its own core drills and does its own retipping.

Youssef says that the construction industry is very busy in Romania and has been for a while. However, when LT started to offer demolition robot services, they lost many contracts, although this is no longer the case. "Since we could offer demolition services with remote controlled robots we have not lost one single contract in Romania." Youssef is thus very satisfied with the close relation he has with Brokk. "We are getting outstanding support both in terms for spare parts and training. Brokk make the training right here in Romania and that saves us a lot of time," says Youssef.

It was just a couple of years back that Youssef and his company started to work with Brokk robots, but now in Romania the company has already 10 trained operators, with currently some 60% of its business coming from concrete cutting services and the rest related to Brokk operations. Youssef states that in the future he will develop and extend the demolition services he offers to include heavy duty and long reach carriers. Right now there are not enough people, and there is not enough space to store all equipment and machinery, although, "The business is there for it," Youssef says. He adds that they are also ready to send Brokk robots to projects in Syria and Moldavia, with the reconstruction of Syria has already started, and LT is ready to support it.

Where Youssef is investing most at present is in terms of Brokk robots. He plans to buy a number of machines each year and send them to the different regions



Core drilling.



A complex dismantling project involving a lot of wall and wire sawing.



LT Diamond Drilling is currently working for a Jordanian construction company that are involved in a large number of projects in Romania. PDi visited one of the site in Bucharest. From the right Youssef Hallak, Dr. Mo-hamad Hasanian, for the Jordanian builder, Sido Union and Jan Hermansson from PDi Magazine.

where they work, such as Romania, Syria, Moldavia, Lebanon and Dubai, and estimates that these will be replaced in every couple of years. The competition in this field is not strong in Romania when it comes to contractors that work with demolition robots, with there being only about 25 professional concrete cutting contractors in the country today.

## Bucharest is 'boiling'

When PDi's editor in chief Jan Hermansson visited Youssef, he was taken to some jobsites in Bucharest. The city is frankly 'boiling' with construction cranes located throughout the city. The first visit was to a construction site on the south side of the city, where a large complex of apartment buildings is being built. LT has three men working on site, which consists, among other things, of demolishing a floor, which had been incorrectly poured. A Brokk 110 is being used along with floor saws from Diamond Products. This particular project is not that big, and will take about four days for three men to complete. The construction firm is the Romanian company Confrasilvas, which is one of the biggest construction companies in Romania, and involved in the majority of projects in the capital.

The next jobsite visited was on the western side of Bucharest where Militar apartment complex is being constructed by the developer Evogue. On this side of the city there was not a single building ten years ago, only fields and trees. Now there are plenty of high rise buildings with apartments, being a relatively inexpensive part of the city to live. Here LT drills about 200 holes per day for plumbing and other installations in various dimensions, and during the visit LT was making an 800mm hole in a very confined place. The hole is for taking care of wastewater and needs to be drilled down to 700mm. In order to get the core out a cracking device from Tyrolit was used.

The next project, located more in the downtown area of Bucharest, is by a developer from Jordan. The



Wall sawing with a view in Bucharest.

company bought the land and has constructed a number of high rise apartment buildings with large flats. LT has worked for about 18 months on the huge project and has about two more years work to go. Until now, some 7,000 holes have been drilled and about 5,000 remain to be completed along with numerous other tasks. The project is divided into two phases with the complex containing 11 buildings, which altogether comprises of 1,270 apartments and 3,000m<sup>2</sup> of retail facilities. Phase 1 started in September 2017 and will be finished in August of this year, with Phase 2 scheduled to start in 2020. Total investment is estimated to be some €88M.

The developer also has construction projects ongoing in Bucharest, Constanta, Brasov and Mogosoaia, with the company today employing some 850 construction workers. When PDi talked to one of the project managers at the project in Bucharest, he stated that the construction industry in Romania is really booming right now, and believes that it will continue to increase for another 4 to 5 years. The apartments cost about €1,050m<sup>2</sup>, whilst the less expensive Militar complex cost about €850m<sup>2</sup>. The construction boom in Romania began in 2014 and is currently increasing by some 10% to 15% each year.

Youssef also has a large number of other projects he has been involved in to talk about. For instance, earlier this year LT partly demolished a large glass factory some hours from Bucharest, including a furnace and 12 generators, 18m high. This was a very complex project and needed very detailed planning. The key to the success, amongst other things, was a Brokk 800, with the project taking three weeks to complete.

Youssef Hallak and his company LT Diamond Drilling are following a firm road to success in the Middle East and Europe. The most important element to this is that Youssef is not afraid of breaking boundaries. That trait took him from Lebanon to the Middle East, Australia and to Europe. At the demolition conference, Demtech, 13 November in Mumbai, India, Youssef will be sharing his knowledge and experiences, lecturing on the subject: 'Robotic demolition and concrete cutting in a nuclear environment'.

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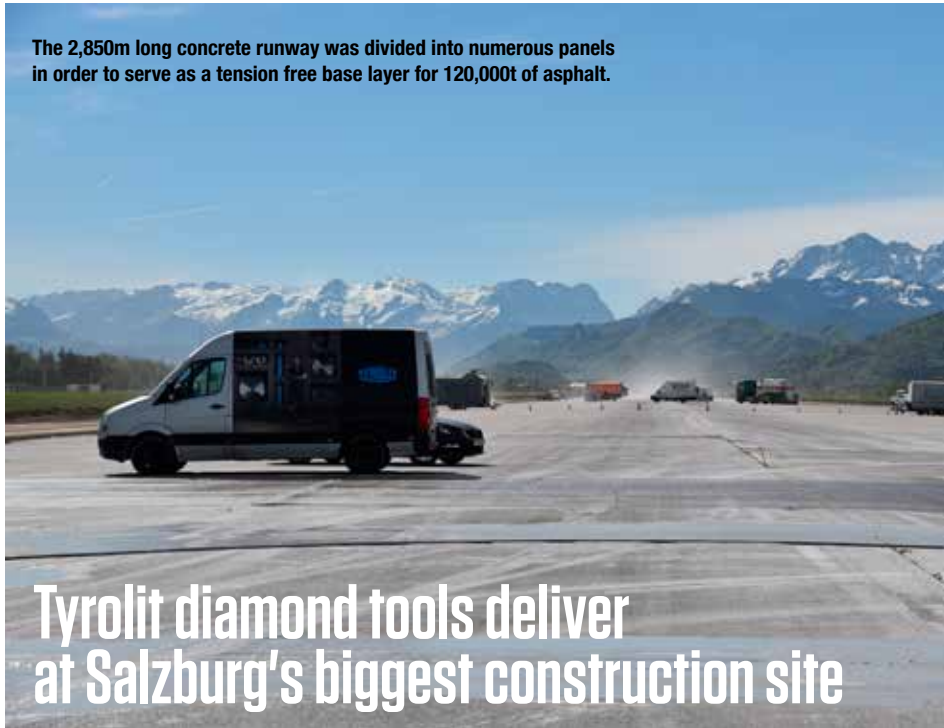
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The 2,850m long concrete runway was divided into numerous panels in order to serve as a tension free base layer for 120,000t of asphalt.



## Tyrolit diamond tools deliver at Salzburg's biggest construction site

***In a large scale project, the 15/33 runway at Salzburg Airport was refurbished from 24 April to 28 May 2019. The concrete runway, built in the 1960s, would remain as the foundation for the new covering layer consisting of 120,000t of asphalt.***

Part of the runway renovation project was the core drilling of more than 800 holes for the runway illumination, as well as 10.8km of floor cuts. Three specialised construction companies, Possehl Spezialbau, ÖBA and OAT, worked simultaneously in order to finish the works on time. The key to the renovation of 2,850m runway was to maintain the current concrete runway as a base layer, thereby avoiding transport and removal costs. With a 'beheading machine', the 45m wide runway had to be divided into smaller concrete panels, which would act as a tension free base layer. In just five days, this required over 10.8km of preparative floor cuts with a width of 15mm and a depth of 300mm, amounting to 240 cuts of 45m each to be made. Tyrolit floor saw blades dealt with the task using solutions the cutting contractors and Tyrolit application engineers devised.

After the new layer of asphalt was finished, over 800 core drills for the LED illumination of the runway had to be undertaken in only five days. For this challenge, the drilling contractors used once again Tyrolit drill bits with TGD Technology. The drilling, as well as the subsequent tasks, were finished within the planned period, meaning that the airport was also reopened as scheduled.

### Tyrolit diamond tools used for the project

For the floor sawing tasks at Salzburg Airport there were used three different specifications of Tyrolit floor saw blades with TGD Technology: FSL\*\*\*-C, FSM\*\*\*-C und FSH\*\*\*-C. All are suited for cured concrete with soft to very hard material aggregates and are laser welded up to diameters of 1,200mm. The intelligent distribution of the grain enabled by TGD Technology ensures constant high cutting speeds and smooth running.

Tyrolit CDL\*\*\* core drill bits with TGD Technology ensure constant high cutting speeds as well as smooth operation and come with a long life span. They are equally suited for the drilling of concrete and asphalt and were, thus, the perfect choice for the drilling for the holes of the LED illumination part of the Salzburg Airport refurbishment.



**In order to facilitate the cutting of the 'beheading' machine, three construction companies had to make 240 preparative cuts with a length of 45m, a width of 15mm and a depth and 300mm.**



## Indeco products guarantee excellent production

The 'Metro Tunnel', also known as the Melbourne Metro Rail Project, is a metropolitan rail infrastructure project that will make a significant difference to mobility in the city of Melbourne, Australia. The project involves the construction of twin 9km rail tunnels between South Kensington station (north west of Melbourne City Centre) and South Yarra (in the south east) with five new underground stations.

Work began in 2016, with 2017 seeing sections of Melbourne's Central Business District (or CBD) being closed for demolition work to make way for the construction of the tunnel and new stations.

This area includes City Square, where the CBD South Station known as Town Hall Station will be built, and where Indeco products were used to demolish buildings and underground parking to make room for the new station.

The demolition was entrusted to City Circle Demolition and Excavation, a Melbourne based company founded in 1981, specialising in excavations, demolition and recycling. Critical issues include the lack of space available and the noise limitations imposed in the Central Business District during working hours. The company therefore started off using small hammers and excavators to create the entrance, and thereafter using larger excavators equipped, according to the job at hand, either with an Indeco multiprocessor or with a hammer, working for about eight months on eight hour work shifts. City Circle became an Indeco customer in 2016 and since then has purchased several products from Indeco Australia, which has been supplying the local market since 1993.

The company's fleet is currently made up of eight breakers, three of which are small (HP 150, HP 500, HP 700), three medium (HP 1200, HP 1500, HP 2500) and two large (HP 3500 and HP 7000), plus three multiprocessors (one IMP 15 in shear configuration, one IMP 35 and one IMP 45) and an IRP 29 X rotating pulveriser. "We are familiar with several Indeco products, their hammers, pulverisers, multiprocessors and shears," says Peter and Tim Skidmore, respectively director and manager of City Circle Demolition and Excavation. "Indeco products are always good performers and guarantee excellent production. What's more, their commercial and technical support are second to none, which is crucial when we have tight deadlines to meet."



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## Kubota BUEE

Kubota BUEE (Business Unit Engine Europe) brought innovation to its stand at bauma 2019, where it featured a prototype of its latest micro-hybrid system. This forms part of the largest and most comprehensive range of engines Kubota has ever displayed at a major construction trade show. Kubota believes equipment manufacturers will progressively become less reliant upon any single power source, and that the engines themselves will need to further push the boundaries in areas of fuel efficiency, power density and adaptability.

As a result, Kubota believes that the micro-hybrid system will offer opportunities for equipment manufacturers to exploit advances in product design flexibility, optimisation and efficiencies derived from 'downsizing', while maintaining the overall machine performance and productivity. Designed for types of applications that demand an immediate response to instantaneous peak overloads within the typical machine duty cycle, the 'Power Assist' micro-hybrid system delivers and supports the engine by delivering an additional electrical power boost of up to 10kW (when comparing the V2403-CR-T with the D1803-CR-T; results may vary according to the engine, machine specifications and usage). The immediate torque available offers an efficiency boost at the most crucial time while recuperating and recharging its battery pack when not initiated.

This means, as an example, that a three cylinder micro-hybrid equipped engine can achieve similar levels of performance as a conventional four cylinder engine, and avoid the necessity to overcompensate by installing a larger capacity engine. Working in partnership with the engine, the micro-hybrid system allows for reduced fuel consumption and lower operational costs, while offering increases in work efficiency and value.

System integration with Kubota's electronic engine management control means that the micro-hybrid system is compatible with many of Kubota's diesel, gasoline, LPG and natural gas engines across the power ranges. Utilising and benefiting from an independent driveline, the micro-hybrid system maintains accessibility to the existing power take off positions of a conventional engine. This can be particularly appealing to both existing applications and more compactly designed applications in the future. First seen merely as a concept at Intermat Paris, Kubota's micro-hybrid system can be installed as a package into future machines.



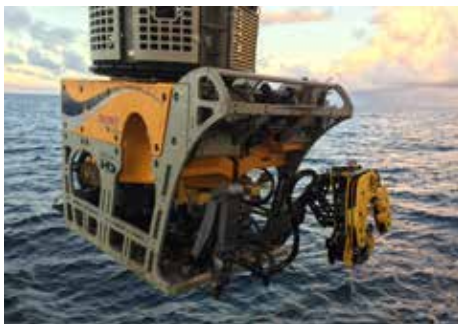
## TYROLIT DISPLAYS LATEST INNOVATIONS AT BAUMA 2019

***At the bauma 2019 exhibition, the system solutions provider Tyrolit presented its latest innovations to an international audience.***

A 210m<sup>2</sup> indoor booth and 160m<sup>2</sup> outdoor area displayed Tyrolit's comprehensive product assortment for concrete cutting and drilling as well as special product solutions for complex projects, with the outdoors area used for demonstrating and testing the products live. The wall sawing highlight came from the WSE1621. With ultra-light components, intelligent communication interfaces and cutting depths of up to 705mm, the WSE1621 is a wall saw for everyday use on the construction site. Moreover, the wall saw is the first Tyrolit machine equipped with 'MoveSmart' Technology.

At the show, Tyrolit also debuted the WCU17 wire saw. This comes with wire storage of up to 17m and is easy to use. Its special feature is the machine's compatibility with the drive units and remote controls of other Tyrolit machines such as the WSE1217 and WSE1621. Another highlight is the recently CE certified WS30, a HF wire saw from the Tyrolit subsidiary Diamond Products.

Tyrolit also presented a completely new compact dry cutting assortment for the construction trade sector. Central to the new range are high product safety as well as optimised cutting speeds and a maximum tool lifetime. The product innovations comprise discs with conventional segments, as well as segments with TGD Technology. Further developments aimed at the construction trade sector are the new assortment of floor grinders and floor grinding shoes.



Apart from the classic concrete drilling and sawing equipment, the Tyrolit Project Services team offers a wide range of special tools and machines for complex projects. Part of this range was presented to the general public for the very first time. Tyrolit also presented its 'Curved Track', a drilling unit for deep drilling, the world's first ATEX certified wire sawing system, and the Dolphin by 1Diamond, one of the leading experts in the offshore and subsea business. Tyrolit and 1Diamond teamed up in 2018, thereby providing cutting solutions for as deep as 3,000m below sea level.



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***Designing and manufacturing excavator attachments is a complex engineering task fraught with technological challenges. Excavator operators like their work tools to be robust, high performing, low maintenance and durable. These qualities take on even greater importance in such harsh environs as demolition sites and recycling yards, which leaves suppliers little room for mistakes. PDi's Andrei Bushmarin presents the latest news from the attachment industry.***

## **New attachments from Epiroc**

Epiroc has expanded its offering with additions increasing user productivity and maximising investment, including pulveriser jaws for combi cutters with the introduction of pulveriser jaws for the CC 3100 combi cutter being unveiled at bauma, with more models to follow during Q2 2019. Fitted with Epiroc's coupling and positioning system (CAPS) which makes it easy to switch between jaw types on site to suit the work at hand, the full jaw range consists of universal (U), steel cutting (S) and pulveriser (P) jaws.

A new CC 1600 combi cutter model designed for carriers in the 13t-23t class has been released. A stable cutter body features two powerful hydraulic cylinders with integrated speed valves for minimum cycle times and low fuel consumption. Fully protected by piston rod guards, the cylinders deliver virtually constant closing force which remains high even when the jaws are almost closed. The MG multi grapple range has been redesigned to make it even more robust. The MG 1000 was displayed at bauma, with the entire range being replaced during 2019. As a new option, to allow even better customisation of the grapples, they can now be ordered with or without rotation device to enable operation of the base units in combination with tiltrotators. A new cutting wheel option is available for the ER/ERC 50-ER/ERC 3000 transverse drum cutters. As precision is key when it comes to cutting narrow trenches for cables or pipe trenches with a width of 55mm-250mm, and a depth ranging from 150mm (ER/ERC 50), up to 700mm (ER/ERC 3000) can be cut in one go.

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



## **Furukawa Rock Drill extends FXJ hydraulic breaker series**

Furukawa Rock Drill has introduced two new models in its FXJ series, the FXJ 225 and FXJ1070. One of eight FXJ models, the FXJ1070 replaces the F100XR, adding



an extra .5t in weight and with more impact energy, as well as durability and the lowest lifetime ownership cost in the range. Thanks to improvements of its in-liner systems, and various other patented solutions, the new FXJ breakers offer an increased power to weight ratio. A weight reduced breaker with higher impact energy results in larger breaking power, with less maintenance with minimum downtime and easy handling. A wider range of oil flow allows the breaker to be used with various excavator sizes. A new mono block design eliminates the need for through bolts, resulting in higher performance and more stability. The FXJ series is ideal for use on demolition sites, or as a production breaker at a quarry, with the slim design increasing the efficiency in trench and channel works. Both noise and vibrations are also reduced by the newly designed dampening system.

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### The FS145 - the biggest pillar in the ShearCore Fortress

In August 2019, US based ShearCore, a division within attachment specialist Exodus Machines Inc., added a new mobile shear to its Fortress line of excavator attachments. The largest in the range so far, the FS145 has been designed with less welds and fewer pieces to make it structurally stronger according to the lead designer Ross Christenson. Bruce Bacon, president of Exodus Machines, says of the new model, "The FS145 shear is the culmination of the company's design policy, which dictates 'begin every design with a foundation in experience and a desire to improve'. This shear exemplifies that policy with a new tip design to handle the massive force this model delivers. An innovative 'shark fin' rear lug design transfers stress using a new and improved method over any previous design in the mobile shear world, which allows higher forces to be distributed over greater mass. The end result is that this model punches above its weight class which is a serious advantage in the steel processing game." Weighing in at 12.7t, the rotating FS145R has a jaw opening of some 1.2m and a reach of 4.5m. The minimum excavator boom mount is 65.7t while a minimum stick mount is 113t. The FS145 is also available in a non-rotating version. With the FS145 on board, the Fortress line now counts eight mobile shears and the concrete processor cracker series.

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

### Genesis launches 'Razer' multiprocessor

Another North American player, Genesis Attachments, has expanded its product range with the addition of the new 'Razer' X Multi-Jaw Demolition Tool (GRX)



enabling operators to change jaw sets in less than two minutes without leaving the cab. The attachment body contains hydraulically actuated pins, controlled from the cab, that connect to the cylinder and jaw set. The Razer X is available with cracker and shear jaws to process a variety of materials, and each GRX jaw set comes with its own stand specifically designed for correct positioning and efficient handling. Additionally, the GRX features bolt on and reversible wear parts to simplify maintenance while a flat top head with bolt on bracket makes it easy to change lugs for different carriers.

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

### Caterpillar is having a busy year

2019 turned out to be a busy year for the US based heavyweight Caterpillar which added a number of new products to its already extensive portfolio. First off is the new TRS23 Tiltrotator system fitting 23t to 30t wheeled and tracked excavators. The TRS23, featuring a fully integrated control system to enhance carrier versatility and attachment control, rotates 360 degrees and tilts up to 40 degrees left and right, allowing more reach from one position. Cat's scrap shear range has, too, been expanded with the addition of

three new models. Designed for 8t to 40t excavators, the S3015, S3025, and S3035 rotating shears feature optimum force to weight ratios for faster cycle times when compared with predecessor models.

Cat's new top mount silenced hydraulic hammers - the H115 GC S, H120 GC S, H130 GC S and H140 GC S models - are designed for 13t to 40t excavators. The hammers combine optimum power to weight ratios with design simplicity for reliable performance, versatility, ease of use and maintenance as well as providing cost effectiveness in construction, demolition and mining applications. As a package solution, hydraulic kits are available to provide an exact hammer to machine fit, ensuring optimum performance. Also new from Caterpillar is the PL161 attachment locator. Developed for attachment tracking, it allows users to locate the position and condition of attachments on all worksites and plan for maintenance and replacement in a timely manner.

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



### Arden gives its demolition shears a boost(er)

France based Arden Equipment has extended its range of demolition shears with the launch of the CU008 model. Available with a choice of four jaw types - CB (concrete shear), BF (scrap concrete), BB (concrete shredder) and CF (shear scrap) - the new CU008, fitting 11t to 13t excavators, comes equipped with either a speed valve or a booster. Arden's booster technology is built



around compact sized cylinders that reduce cycle times and increase the attachment's performance. The booster technology has enabled the manufacturer to reduce an attachment's weight by some 100kg while maintaining the same crushing force. Another new development from Arden is the CU042 demolition shear, fitting 38t to 50t carriers that has been designed to replace the outgoing CU3500 model. With the same operating weight, the CU042 boasts a bigger jaw opening and is 17% more powerful thanks to the new cylinders and kinematics.

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



### New pulverisers and grapples from Green Attachments

Finnish supplier Green Attachments has beefed up its product offering with a new 'Yellow R' line of rotating pulverisers suitable for both primary and secondary demolition work. Featuring a robust yet lightweight design, the attachments come with blades to cut steel rebar. The attachment geometry ensures that maximum power is reached when jaws are almost fully open, enabling cutting even thin steel plates. A built in speed valve helps increase tool performance, and the cylinder is reversed in order to protect the cylinder rod. The pulverisers come with a pressure relief valve as standard, and the orbital motors have gears for higher reliability. Currently the range consists of 10 models fitting 7t to 120t excavators. Another innovation from GA is the 'Yellow line' of demolition and sorting grapples available with or without rotation. Without the rotation option, the grapples are suitable for tilt rotating installation. The grapple line counts nine models (with various jaw options available) fitting 2.5t to 65t carriers.

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

### Ramtec diversifies into plate compactors

Finland based Ramtec, best known for its 'Robi' range of demolition and recycling attachments, has been





concentrating on plate compactors lately. The newest addition to its 'Kenguru' series of compactors is the C200R rotating model designed for challenging applications in limited access areas. Weighing in at 900kg, the C200R fits 14t to 24t excavators and has its integrated hydraulic rotation unit positioned eccentrically. This solution enables the unit to be used in difficult to access places, for example, under asphalt edges when undertaking compacting for a pipeline. Kenguru compacts up to 90% of cohesive soil at a depth of 750mm. Other benefits include the ability to change the vibration altitude thanks to a high frequency compact unit and a 'next to no' maintenance requirement.

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



## Idrobenne: a grapple expert from Italy

Headquartered in Brescia, Northern Italy, Idrobenne has been manufacturing demolition and sorting grapples since 1994. Before 2010, the company only offered grapples for up to 8t carriers, but since then its product portfolio has been expanded to include models suitable for up to 27t machines. Featuring the heavy duty 'Quadra-Box' frame with extra-large bearings at pivotal points, the grapples come with jaws made from the Hardox 450 wear resistant steel with replaceable and reversible blades. Other trademark features include a single hydraulically cushioned cylinder with two compensation bars on the sides, long levers to increase the closing force, a safety valve flanged directly on the cylinder, and oversized tips to transfer the shocks experienced to the main frame which also protects the cylinder and junctions from wear and tear. Wide inspection openings ensure easy maintenance. All models feature a continuous hydraulic rotation option as standard.

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

## ARVI showcases Echidna rocksaw capabilities

ARVI is a Netherlands based supplier of demolition, recycling and earthmoving solutions for professional contractors. The company represents a number of well recognised global and European brands in the Benelux, but perhaps it is most known for its long term cooperation with Australian based manufacturer Echidna. Established in 1990, Echidna specialises in making rocksaws that allow cutting a wide range of construction and rock materials. The case studies below are a testament to the broad applicability of Echidna equipment.

## Recycling epoxy windmill piles

After having collapsed in a storm, the epoxy windmill piles were delivered to Nehlsen, a plastic recycling specialist based in Bremen, Germany, for further processing. The equipment used by Nehlsen on this project included an Echidna rock saw with a flow of 150l/m installed on a Cat324D excavator. The epoxy varied in thickness from 10mm to 330mm and was cut length and width wise to sections measuring 1m by 2m.



## Demolishing a reinforced concrete building

Another project saw an Echidna rocksaw with a 70l/m flow being used to dismantle a reinforced concrete building in Bremen. Powered by a Husqvarna DXR300 demolition robot, the rocksaw cut the concrete structure to sections that were being held up by a telescopic crane. The thickness of the concrete structures being cut varied between 200mm and 280mm with 10mm rebar inside.

## Dismantling a heat exchanger

On a job in Terneuzen, a city in the southwest Netherlands, a 170l/m Echidna rock saw fitted to a 22t Kobelco excavator, was used to dismantle a heat exchanger. The main task involved separating the copper pipes inside the heat exchanger (which were worth much more than other parts) from the remaining structure. The Echidna saw proved just the solution for the task.

## Mining natural stone in Australia

An Omnicut rock saw with a 270l/m flow installed on a Hitachi ZX350 excavator was successfully employed to cut sandstone blocks in a quarry in Australia. This Omnicut model came equipped with three 1.6m wheels brandishing the custom designed Echidna teeth. The wheels have a lower rotation speed than a diamond blade, which results in a wider trench. Although not mandatory for this type of saw, the use of cooling water is still highly advisable as it extends the teeth's life and enhances productivity.

[www.arvi-demolitiontools.com](http://www.arvi-demolitiontools.com)

## News from Indeco

Indeco's new IMP multiprocessor has a more robust body and has been redesigned to increase its maximum jaw opening, while its demolition, pulverizing and cutting geometries on the various jaws have also been improved.

The jaws have also undergone another key improvement, with Indeco IMP's crusher and pulveriser configurations now having interchangeable teeth. Welded onto a bolt on plate anchored to the jaw, all Indeco jaw teeth can be removed as a unit. This greatly speeds up replacement and improves grip, giving the attachment greater durability.

The shear version has also undergone substantial innovation with the blades now being fully reversible and interchangeable so that they can be used for cutting at any angle. They have a dual profile piercing tip system with differentiated upper and lower tips, for a clean gradual cut.

## New HP 100 micro hammer

The Indeco range of small hammers has been expanded with the HP 100, designed for mini excavators from

0.7t to 0.8t for working in restricted working areas. Despite weighing less than 132 lb (60 kg), the HP 100 has a larger steel diameter than hammers in the same class, and delivers good impact energy per blow. The new hammer also maintains maximum hydraulic efficiency from start to finish, reducing demolition times and ensuring high productivity levels.

## Anti-dust system updated

Indeco's IDA dust abatement system has been updated in line with the latest OSHA guidelines in order to protect workers even more against exposure to crystalline silica micro particles. Indeco has launched an

optional low-pressure dust abatement system for its smaller range of hammers and pulverisers, which can be mounted on carriers of up to 16t.

The technology involves moving the vaporising plate, with its four nozzles, away from its previous position in the lower part of the casing. It is now located where the mounting bracket is attached, which enables it to cover the entire working area regardless of the tool's position. This reduces the amount of dust produced, even on windy days. The new system requires a low-pressure water supply, as the sprayers activate automatically only when the attachment is in action, thereby reducing water consumption.

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



## Trevi Benne's new MA Series of Processors

Trevi Benne of Italy introduced at Bauma a new generation of universal processors, the MA Series. The



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expression of perfect productivity and efficiency, the MA Series is a perfect match of power in demolition, fast opening/closing cycles, and reliability. Five models are available, from the 4,189-lb (1,900-kg) MA 18 up to the 24,251-lb (11,000-kg) MA 65. Available with Combi and Swiss Kit, the MA Series is the perfect equipment for any demolition process—from the demolition and crushing of concrete structures to cutting reinforcing rods and metals. Trevi Benne's display also showcased the model MA 25 model with Combi Kit, for a total weight of 5,953 lb (2,700 kg).

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

#### VTN crushers get magnetic separation option

Italy based attachment expert VTN Europe has upgraded its VF series of fixed crushers by adding an electromagnetic separation option. Designed for secondary demolition applications, the VF crushers have already proved popular with end users thanks to such features as a wide jaw opening, high clamping force and short working cycle. Now the attachments are available with an integrated electromagnet to facilitate material separation immediately on the job site. The magnet is powered by an integrated hydraulic unit, with no external power unit required.

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



#### Promove strengthens position in secondary demolition

Another Italian company is Promove that recently celebrated its 30th anniversary. It has redesigned its CF range of fixed pulverisers as part of a quest to strengthen the company's position in the secondary demolition segment, with all attachments now manufactured from wear resistant Hardox 400 steel. A single weldless block located between the body and the fixed jaw lends extra strength. The mobile jaw features three rows of two interchangeable teeth. The central row is staggered and slightly lowered compared to the other two: this solution allows better penetration of any material being demolished. The lower interchangeable plate on the body is designed to ensure a safe and stable grip on the ground and to facilitate handling of debris and non-crushable materials. Thanks to their compact design, the new CF pulverisers are more productive and easier to manoeuvre



than their forerunners. From the CF200 model on, all pulverisers are equipped with a speed valve to shorten the working cycle up to 2-3 seconds. The oversized pins are protected by a system of bushings to ensure long service life even in the most challenging environments.

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



#### Wreko, a new player from Italy joins the fray

This year, the attachment industry was abuzz with the news of takeovers and acquisitions. Takeovers might be good for business but they do tend to consolidate the market thereby reducing competition. Therefore, the appearance of a new player is a welcome change from the trend. Based in the province of Veneto (an attachments Mecca, so to speak), Wreko was founded by three partners, each having a track record of 20 plus years in excavator attachments. They set themselves an ambitious goal to become a 'Ferrari' of the attachments industry by providing clients with customised solutions of the very highest quality. Wreko comes to the market well prepared, offering an extensive range of products for demolition, earthmoving and forestry applications. The range comprises of crushers, pulverisers, scrap shears, orange peel grabs, crusher buckets and forestry shears, but this however is an incomplete list of work tools available from the Italian manufacturer. All attachments are produced at the company's manufacturing facility in the town of Este, Veneto.

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

#### UEDA Industries: small company with big R&D capabilities

Based in Osaka, Japan, UEDA Industries is one of the pioneers of bucket crushing and screening technology. The company is small sized (with a staff of some 30 employees) but its R&D capabilities easily rival those of its much bigger counterparts. Being a signature product, UEDA crusher buckets are well crafted, and boast many useful features. For instance, the upper and lower jaw plates can be exchanged as well as the rear and front sections. The buckets are built in a way that allows simultaneous direct and reverse rotation, with any clogged material released by just reversing the rotation. According to the manufacturer, the direct drive system's maintenance is 'easier' when compared to



most competing brands. The optimised design of the jaws results in high performance crushing. The buckets are available with a 24V magnet and/or a dust suppression system as an option. Thanks to the large inlet and discharge openings – 700mm x 700mm and 150mm to 300mm respectively – the bucket crushers are suitable for processing big chunks of concrete.

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

#### Skancraft: demolition craftsmanship

Skancraft GmbH & Co. KG is a mid-sized German company headquartered in Fürstentzell, Bavaria. With a track record of over 30 years in the construction equipment sector, Skancraft has an ample choice of attachments to offer to demolition, mining and forestry professionals. On the demolition side, a range of rotating pulverisers is one of the company's most popular product groups. The range consists of six models fitting 15t to 80t carriers. Thanks to the 360° continuous rotator, the pulveriser can be positioned at any angle during operation. Other highlights include high quality replaceable teeth, an extra-long piercing tip, optimised jaw construction and a robust swivel head. With magnetic separation becoming a staple feature on demolition sites, Skancraft has designed an eight model line of hydraulic magnets ranging in weight from 500kg to 1,800kg. The magnets come with a three strand chain suspension as standard. On request, a quick change adapter can also be fitted to the mounting plate. The range's biggest model - SCHMAG 1300 FIX - is equipped with 'fangs' to facilitate the exposure and removal of ferrous metals. This makes the magnet a sort of 'combi tool' for digging and picking up metal parts.

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







Another innovation unveiled by the Dutch manufacturer this year is the DDCC two cylinder concrete crusher that has been specifically developed for demolishing the thickest concrete structures such as viaducts, quays and heavy foundations. The crusher has two pivot points to ensure that the jaws generate increased torque for maximum closing force. The hydraulic system is completely built into the frame, with the cylinders protected by robust cylinder guards so the hydraulics cannot be damaged during operation. The DCC also has an extra wide and deep jaw mouth. Also new from Demarec

are the DSB and DFX series of hydraulic hammers. The DSB series are so called 'monoblock hammers' with a simple design, fewer parts and are easy to service. They are suitable for mini excavators, loaders and demolition robots, whilst the DFX series fits medium to large carriers. And last but not least is the KDC line of drum cutters. The line consists of nine models fitting 2t to 60t carriers, which have a heavy duty sealing system making it possible to operate the cutter underwater at a depth of up to 25m.

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

#### Rotar debuts Ramplifier at Bauma

The highlight of the Rotar booth at Bauma was the RCC concrete crusher featuring the patented Ramplifier



device. Installed inside the cylinder rod, the Ramplifier increases the cutting force from 350 to 700bar. The booster kicks in at the pressure level of some 250bar to make the crushing process more efficient. Built for heavy industrial demolition, the RCC is ideal for crushing thick reinforced concrete structures such as bridges, garages and foundations. Adjustable cutting blades with shims can be fine-tuned for correct gap, while replaceable wear resistant teeth slide on easily with just four screws. Rebar cutting blades are longer and easier to use.

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

#### Beilite: breaking force to be reckoned with

Beilite Machinery Co. is a Chinese based manufacturer of hydraulic breakers that is fast becoming a force to be

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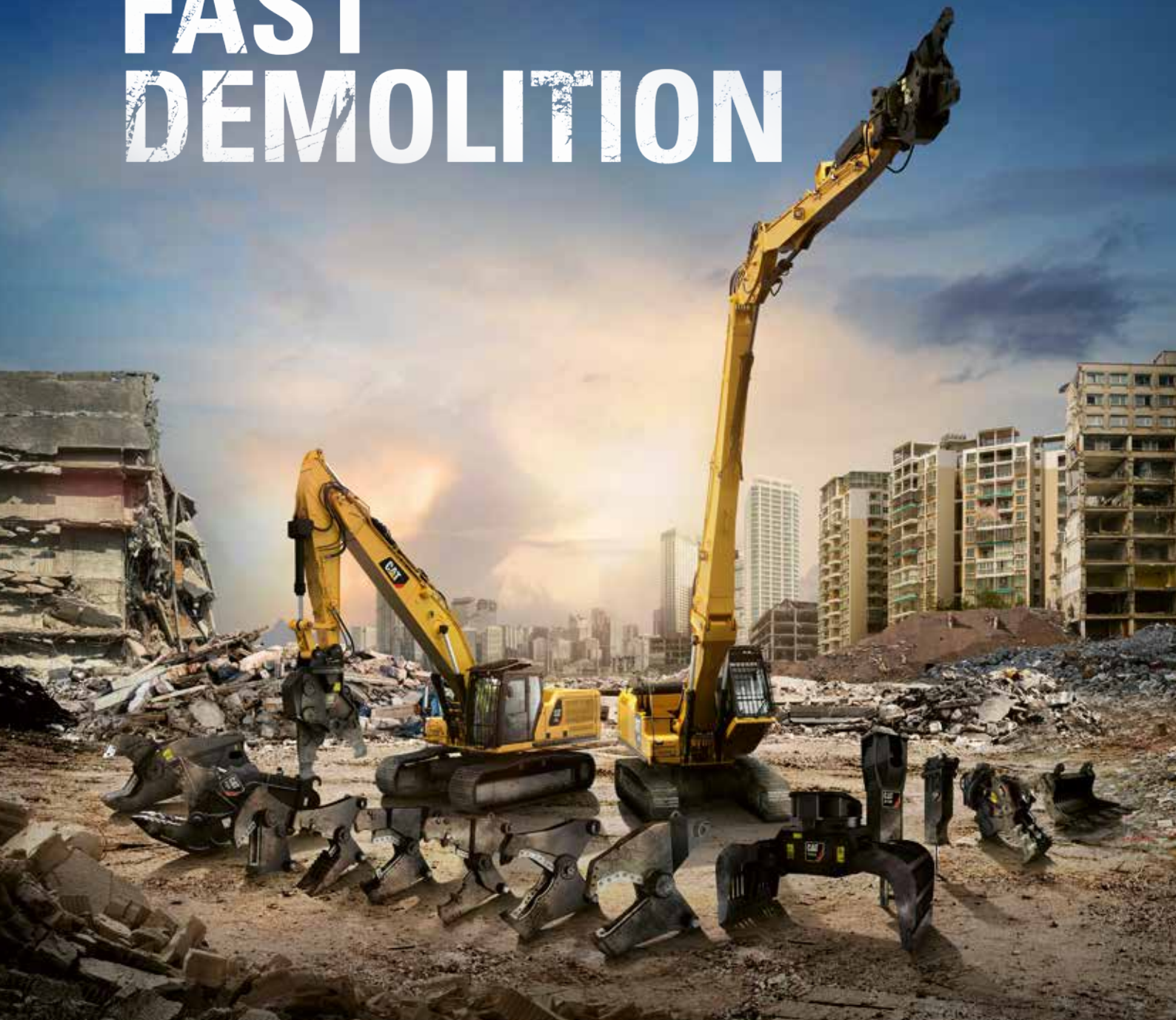
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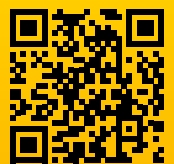


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reckoned with in the global market. Since 2003 when the company was founded, it has been growing exponentially from a small enterprise of just 12 people to now being a major player with a staff of 190. A market leader in China, Beilite made its first foray into the international market in 2010 and, already by 2012, its BLTB line of hydraulic hammers had become popular with overseas customers. Today the BLTB line includes 20 models that fit excavators ranging in operating weight from 0.5t to 160t. Beilite is now a manufacturer with a global footprint, supplying its products to every continent under its

own registered brand name. In Europe, Beilite breakers are distributed by ACDE Europe, a manufacturer and distributor of excavator attachments for demolition, recycling and forestry applications since 1994.

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

## New concrete crushers from Darda

Darda has released the new concrete crushers CC440 and CC580. Two perfect attachments for use with Brokk demolition robots or other demolition carriers. CC440 is developed for carriers weighing 2,5 to 4,5t and CC580 for carriers weighing 5,5t to 9t. The units has breaking forces of 431/44 kN/t for CC440 and 490/54 kN/t for CC580.

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



## NPK unveils new crushers and pulverisers

Japan-based attachment specialist NPK used Bauma to unveil the V160R pulveriser fitting 16 to 21t excavators. A smaller version of the V250 pulveriser launched a year earlier at Intermat, the brand-new V160R bears all the hallmarks of the V series including high closing force, replaceable tooth plates, teeth on the arm and frame, a 200mm long rebar cutter positioned in the centre of the jaw. Also on display were the SV140R and SV500R hydraulic crushers designed for 10-16t and 39-48t excavators respectively. Both models feature the double cylinder and single (in case of the SV140R) and double booster design, which places them among the most powerful crushers in their class. Boasting a wider jaw opening, the new crushers offer higher crushing force while generating less noise thanks to the cylinder covers.

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



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# FROM THE VALLEY OF GUNS AND ROSES

*Superabrasive's line of Lavina floor grinding and polishing machinery and diamond tools has grown to be one of the biggest on the US market, with its main production sites located in Krun, Bulgaria and in Hoshton, USA. Now the company aims to grow more aggressively in Europe. PDi Magazine's Jan Hermansson met recently with the company's founder and CEO George Popov and European sales director Svetlana Peneva.*



Assembly of the Lavina floor grinders in Krun.

**T**he history of the concrete floor grinding and polishing industry is quite a tale, with few knowing the full story from the early 1990's when everything began, but founder and sole owner of the Bulgarian manufacturer Superabrasive, George Popov, does. Jan Hermansson, editor in chief of PDi Magazine, is also one of those, who well remember when a new method using planetary grinding heads was developed

for efficient concrete floor grinding, and later on, polishing. This method would soon revolutionise the construction industry and create a whole new market.

Jan Hermansson met with Superabrasive's CEO George Popov and European sales director Svetlana Peneva at the European head office and factory in the city of Krun in Bulgaria. Krun is a small city, but very close to the much larger city of Kazanlak in the centre

of Bulgaria, and is located in a valley with high snow covered mountains to the north, and a lower ridge in the south. This valley is known for its plantations of roses, sun flowers and lavender, also being famous for its rose oil.

When the meeting began, Popov asked if the PDi editor wanted to hear the long or short story about the company: "Raised in an investigative journalism atmosphere the long story is preferred of course," Hermansson replied.

## From weapons to diamond powder

Popov was born in the 1960s in a small village not that far from Krun, which was at that time known for the manufacturing of different types of armaments, with one such company named 'Arsenal', being active and owned by the state. Arsenal's weapons' manufacturing still exists today, but not in Krun. The locals refer to the valley as the 'Valley of Guns N' Roses', due to the weapons production and the rose plantations.

In 1974 the Arsenal factory in Krun started, parallel to the weapons manufacturing, to produce diamond powder to be used in grinding wheels to grind hard metal. This was actually the beginning of what would later become the company Superabrasive. Popov had no connection to the company at that time, but following graduation in 1990 he was hired by Arsenal to develop its diamond tools production and was promoted to general manager of the division within a year. At that time some





Some of the staff at the Superabrasive plant in Krun, Bulgaria.

700 people were employed in weapons manufacturing, and 30 were producing diamond powder. Following the political changes in eastern and central Europe in 1989 the Bulgarian state began to privatise many state owned factories, including Arsenal, with the plant in Krun being acquired by Popov and several partners from the US in 1993 and the name changed to Superabrasive.

“What happened in 1989 all over the former Eastern Bloc was of course something positive, but also a collapse of the political and economic systems in all of the countries. It was a very difficult time also for Superabrasive to find new business. I had to find out ways to make money somehow,” says Popov.

#### USA opened the doors

The manufacturing of tools for grinding hard metal decreased, and so Popov had to start looking for new



Popov showing the Lavina planetary grinding heads which utilize Timing belts. According to Popov timing belts are more durable and relatively easy to replace. The timing belt has teeth, which keeps it in place, and is superior to a poly-V and a flat belt, which might be slipping during operation.



markets. This directed his attention to the USA with a business trip resulting in the establishment of a US office in Michigan, and the production of grinding tools for optical lenses began in Krun. Shortly thereafter, the factory also started to produce a lot of different diamond tools for various sectors, including the stone industry. This led to Superabrasive starting to make tools for polishing counter tops as well as granite and marble floors, directly leading to where the business operates today.

As the new concept of polished concrete became more popular, there was also a growing demand for high quality concrete grinding and polishing tools. Superabrasive started producing private labelled tools for a number of floor grinding and polishing machine manufacturers including HTC America, King Concepts (and consequently Husqvarna), and others. Superabrasive also made private labelled tools for other diamond tools producers for the stone fabrication and rental industries, such as Diamant Boart and Pearl Abrasive.

By the millennium, competition from Chinese diamond tools manufacturers was clearly seen with prices starting to drop. Superabrasive began to increase the company's product range, with the selling of machines for grinding and polishing being a natural progression, and beginning co-operation with a US manufacturer of floor grinding and polishing machines. As those machines were rather light and single speed, Mr. George Georgiev, the Superabrasive US President of the company between 1998 and 2012, convinced Mr. Popov to start manufacturing a new line of floor grinding and polishing equipment.

#### The Lavina series

The first Lavina grinder was launched in 2004. “This first model actually turned out very good. In fact, yesterday, a customer came to the office here in Krun and needed to have service on his Lavina from 2004 which still works very good,” smiles Popov. That was the start of the Lavina series, which has expanded rapidly over the last 15 years, and being upgraded continuously in order to meet the contractors' growing demand for higher ef-





The first Lavina model in 2004.



The powder painting department.



Machining of the grinding heads.



The new production plant for grinding machines in Krun which opened during August this year.



Picture from the manufacturing department where most of the components are produced.

efficiency, productivity and reliability of the equipment that they are investing in.

In early 2000 the concrete floor grinding and polishing industry really had a global break through. In fact it was considered to be over heated from 2008 to 2012, with many new brands, most of them from China, entering the market. Sometimes a single Chinese manufacturer would sell different brands to different distributors. Since then the global market has consolidated with many brands having disappeared due to lack of quality and service: however, during the last 15 years some strong brands has consolidated their positions with Superabrasive's Lavina being one of them.

Nowadays, all Superabrasive machines for grinding, polishing, burnishing and dust extraction are sold under the brand name Lavina. The latest generation of Superabrasive floor grinding and polishing machines is called Lavina Elite. It includes 11 electric and 6 propane models, starting from a 178mm electric edger all the way to 965 mm remote controlled propane machine. In addition, Superabrasive manufactures a 915mm planetary polisher and an electric burnisher LB-21 with a width of 530mm. The company also has its own series of Lavina dust extractors containing three electric and four propane driven extractors, and recently Superabrasive also launched a series of air cleaners, Lavina LA2000.

Popov stated that the Lavina range has been developed and built to make the daily work for the contractor as easy as possible. The machines are sturdily constructed, being able to withstand tough handling and conditions with

minimum down time, and are easy to operate, transport, maintain and service. The Lavina planetary grinding heads utilize timing belts, which are more durable and relatively easy to replace. The timing belt has teeth, which keeps it in place, and is superior to a poly-V and a flat belt, which might be slipping during operation. Superabrasive has used poly-V and flat belts in the old generations Lavina machines but has upgraded all machines to timing belts, whereas some other machine manufactures still use poly-V belts.

Superabrasive's diamond tool assortment today consists of a large number of different metal, hybrid, and resin tools for coating removal, concrete, stone and terrazzo grinding and polishing, floor restoration and maintenance, as well as tools for stone fabrication. Superabrasive also still manufactures tools for the optical industry, and has during the last few years developed its own system for maintaining polished concrete floors called 'ShinePro'. One of the biggest US grocery retail chains, Kroger, has adopted ShinePro for maintaining the floors of some of its many stores. The main reason for Superabrasive's ability to manufacture high and consistent quality of diamond tool is its expertise in the classification of diamond powder, which is generally bought unclassified from a third party supplier. Making sure that the right diamonds are being utilized for the right applications guarantees the excellent performance and reliability of the tooling.

### Major expansion in Krun and Hoschton

Superabrasive was during the first ten years of its life essentially a diamond tool producer, but since beginning

the machine production in 2004, today about 50% of the production consists of machinery.

Now over 300 people are employed at the plant in Krun, with the highly loyal staff consisting of many employees who have been with the company for decades, and some even from the very beginning in 1990. In some cases, whole families work for Superabrasive, with most of them being from Krun or the surrounding region.

Production is divided in two shifts, with each morning three company buses picking up workers from their homes and returning them at the end of the shift. Currently the plant covers approximately 31,400m<sup>2</sup>. A new production facility dedicated to Lavina machines, measuring 6400 m<sup>2</sup>, was finalised at the end of August this year. An additional building, measuring 5,000m<sup>2</sup>, is also being constructed and is expected to be operational by the end of January 2020. "We have a lot of work, and we are quite overcrowded in the older parts of our facilities, so the new extensions will be appreciated," says Popov. Located around the plant there is also quite a lot of undeveloped land, with Popov recently acquiring a large lot measuring 40,000m<sup>2</sup>.

The USA is currently the biggest market for Superabrasive, and Nikolay Nikolaev, the current president of the Superabrasive US office, believes that the company is one of the top 5 flooring equipment manufacturers in the States. Sales in Europe and the Middle East, in particular, have been also picking up. The USA market really kicked off for Superabrasive during the 1990s. In 2002, Popov and Georgiev moved the company from



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From the left production manager for the diamond tool division, Ivan and his colleague Minko is one of many employees that has been working for the company since it started.



Field after field with sunflowers in the valley of Guns 'N Roses.



Grinding tools getting collected for dispatch to a client.



Superabrasive buys unclassified diamond powder from several high quality suppliers and they do make the classification themselves in Bulgaria.



The Superabrasive US head quarter and plant in Hoschton, Georgia.



Superabrasive's answer to Twister, Superabrasive ShinePro.



Grinding tools produced in Krun, Bulgaria.



The Superabrasive team in USA outside its premises in Hoschton, Georgia.

Michigan to Georgia, and after acquiring a lot of land in Hoschton, GA, the company built its new Headquarters there. It is currently approximately 7,500m<sup>2</sup>, including the manufacturing facility for the ShinePro diamond impregnated pads, and recently another 26,000m<sup>2</sup> lot was acquired to allow for warehouse expansion due to the growing US market. Superabrasive now employs approximately 30 people in the US and is selling exclusively through its authorized network of Distributors and Dealers, similar to what it has been doing in Europe and other international markets.

The rental industry in the US has been a big growth engine for Superabrasive, with the company having a nationwide network of large and small rental dealers that are being serviced by two of Superabrasive's strategic partners in the US – Niagara Machine and Concrete-Polishing HQ. "We see a steady growth in the demand for concrete grinding and polishing equipment. Even

nationwide companies, such as Sherwin-Williams and Sunbelt Rentals, have been attracted by the potential of the concrete flooring market and have been utilizing the Lavina line of machines" says Popov. Superabrasive was the first company to supply a low-profile propane driven grinder to the US market in order to meet Wal-Mart's need for a high-speed grinding and polishing machine that was able to polish under the racks in its stores. Superabrasive today has its own certificate to convert petrol driven Kawasaki engines to propane at the plant in Hoschton, and is proud to offer the newest Lavina Elite propane machines with some of the cleanest propane engines in their respective classes.

Even though the company fought for survival in the beginning of the 1990s, it is very healthy financially today, with no external investors in the company. One competitive advantage that Popov is really proud with is the fact that Superabrasive has been producing in-

house almost all of its products and major components for the equipment, whereas many other manufacturers buy parts from component manufacturers, and then assemble their products. "We make everything in house which makes us far more efficient. For instance, we send containers with machines and spare parts from Krun to the US every week. It is a constant flow. Now that we are expanding our facility in the US we will be even better positioned to meet the growing demand of the US market," says the CEO of the company.

The European sales director for Superabrasive is Svetlana Peneva, who prepared the PDi visit at the plant in Krun. Besides Peneva there are five sales managers looking after Europe, Bulgaria, Eastern Europe and the Middle East. Besides its US facility, Superabrasive also has sales offices in the UK, Turkey and the Ukraine, as well as a global network of 30 independent distributors.

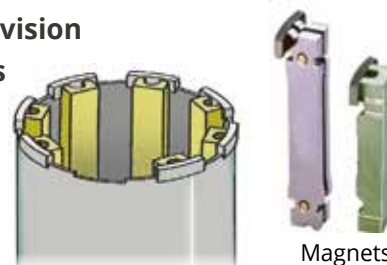
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## C&D waste recycling undertaken in record time

The 2,750m long runway at Salzburg airport has recently reopened after a 5 week shutdown for renovation works with a Rubble Master crusher making a considerable impact to the project.

A compact crusher was supplied by Rubble Master to crush 8,500t of material on site at Salzburg airport which would be immediately reused. "This job was a challenge due to its tight time schedule," says Klaus Weickl, managing director of Weickl Erdbau GmbH. "We only had four weeks to complete all the work." The rented RM 100GO! crusher the company used was able to work directly on site at Salzburg Airport and in under a week was able to crush all the material from the almost 2,750m of runway into a recyclable final aggregate. This was used for the sub-structure of the new runway. "The recycling of C&D waste creates a loop in which transport and material costs are saved and environmental impact is reduced," says Klaus Weickl.

The core business of Weickl Erdbau GmbH, which is based in Hallein, is earth moving and demolition. Due to the wide range of jobs it deals with, it makes sense for the company to rent a compact crusher for certain contracts. Weickl has been using this rental concept for several years. Crushers and screens can be easily rented from Rubble Master in Austria and Switzerland, meaning that the contractor remains flexible and gets the right product for the respective location and time frame.

Rubble Master's quality and service is one of the reasons why the rental model is so appreciated by business owners. Klaus Weickl has been working with the crushers made in Linz for many years: "At a construction site on the A99 motorway in Munich we also had a Rubble Master machine in operation, the RM 120GO!. Both the performance of the crusher and the handling for the employees was significantly better than that of competing products."

## Power and low emissions

Swerock is one of Sweden's largest suppliers of building materials to the construction and civil engineering industry. The company has approximately 950 employees and is part of the Peab Group, which is the third largest construction company in the Nordic region, with approximately 14,500 employees in Sweden, Norway and Finland combined. For Swerock, the reuse and recycling of demolition waste is extremely important, contributing towards a resource efficient society.

For this very reason, Swerock looked at the Rockster R1000S, supplied by its Swedish sales partner Niklas Johansson of Biocare Svenska AB. "High throughput of this compact machine, perfect transport dimensions and excellent access for maintenance, have convinced my customers (Swerock) that the Rockster crusher is the right one for them," says Niklas Johansson. Thus for a recycling company like Swerock, the environmental impact of the machine was an important purchasing criteria. The company sees itself as an environmental friendly service provider, wishing to recycle construction waste, thus attaching great importance to the ecological footprint of the Rockster R1000S impact crusher.

Thanks to the hydrostatic drive of the crusher, which ensures a constant crushing power, the diesel



consumption per ton is noticeably reduced. Niklas Johansson explains: "With Rockster's hydrostatic system, the diesel engine always stays in the optimal rpm range, only the hydraulic pump adapts to the crusher's power requirements, which results in lower fuel consumption per ton of final material." In addition, the crushers Volvo Tier4f engine, with AdBlue, ensures very low NOx emissions.

Swerock's R1000S is mainly utilised for recycling of demolition debris, with concrete crushed to 0-70mm in order to be used again for under filling in construction projects. Recycling of used asphalt is another application for the Rockster crusher where a final grain size is usually set within 0-16mm. "Thanks to the screening system, the final grain can be precisely defined and no oversize material is produced. This way we can achieve the maximum added value in our recycling process," says Niklas Johansson.

## FROM ROOF TO ROAD WITH HELP OF COBRA BUCKETS

Denmark based Tarpaper Recycling ApS provides the future with a new patented method for recycling of roofing felt waste. During demolition or refurbishing of roofs, roofing felt waste has traditionally been deposited in landfills or been combusted. Recycling of roofing felt waste is now possible, through a new innovative patented method, that provides large benefits to the environment. The primary reason for reusing roofing felt waste is bitumen, a refined oil product. As oil is a resource that will become scarce in the future, the reuse of roofing felt waste is of utmost environmental interest.

The refining process of Tarpaper Recycling converts the bitumen-rich roofing felt waste into a raw material "BitumenMix", that can be recycled 100%. This product can be used as binder in the production of new asphalt as it contains bitumen, the most valuable raw material in asphalt. Roofing felt can replace bitumen to a certain point in the production of asphalt, somewhat depending on what type of asphalt is produced, roughly 2-3 % of totally 5 %. This contributes to a better environment by reducing CO2 emissions and solving a waste handling problem. This product has been recognized by authorities in Denmark, Sweden and Finland as it is cost reducing and has positive environmental effects.

### Challenges in production and how to solve it by Cobra Screening Bucket

Roofing felt waste is delivered or collected by Tarpaper Recycling to their receiving sites. At the factory the waste is crushed with special designed stationary crushing equipment and transported to the asphalt production facilities or stored for later use. When storing the crushed roofing felt waste for a longer period of time, it will start to get lumpy, especially during the summer months. In order to get the material usable again Cobra screening and crushing bucket comes in handy. With this attachment tool for excavators and wheel loaders

the contractor easily pulverize the lumpy material to fine fragments and thus ensure smooth production process.

The users of Cobra buckets have also noticed that if re-piling of material is needed, it doesn't stick together as easy as before processing with Cobra. It also crushes or screens out possible bigger particles before material entering to the production process.

With Cobra Screening and Crushing Buckets one can effectively screen, crush, separate, sort, recycle, reuse, mix, backfill and/or aerate many different materials; industrial by-products soil like roofing felt waste, soil, dirt, peat, waste soil, demolition waste, frozen materials, etc. One can process also wet materials. Cobra Screening Buckets are designed for excavators, wheel loaders, backhoes and telehandlers. Thanks to robust design and fine adjustment of fragment size it's a versatile and powerful tool to ensure high quality end product and high production rate.

Cobra Screening and Crushing Buckets are manufactured by Finland based Cernos Oy.

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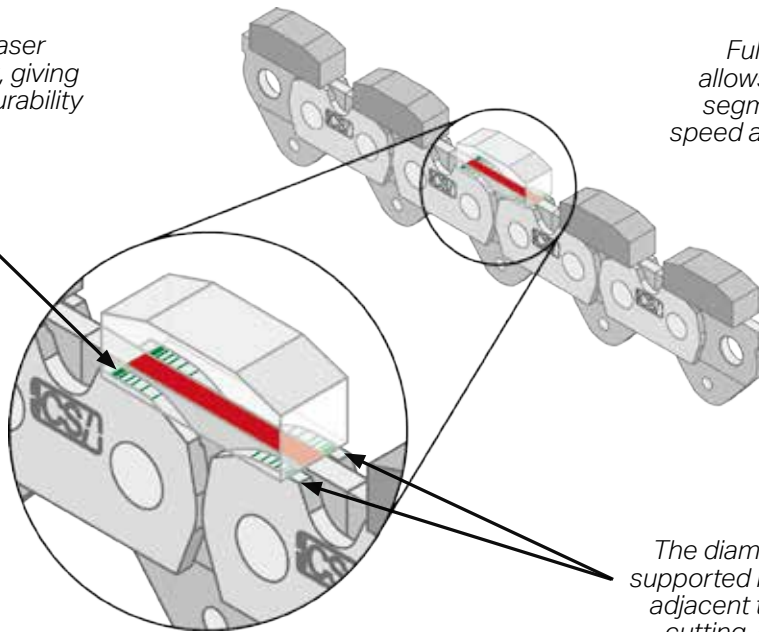
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## Indeco's anti dust system updated

The IDA dust abatement system, already available on some of the hammers in the Indeco range, has been updated in line with the latest OSHA guidelines in order to protect workers even more against exposure to crystalline silica micro particles. Indeco has launched an optional low pressure dust abatement system for its smaller range of hammers and pulverisers, which can be mounted on carriers of up to 16t. The technology involves moving the vaporising plate, with its four nozzles, away from its previous position in the lower part of the casing. It is now located where the mounting bracket is attached, which enables it to cover the whole working area (whatever position it is in) and reduce the amount of dust produced, even on windy days. The new system needs a low pressure water supply, with the sprayers turning on automatically only when the attachment is in action, thus also reducing water consumption.



## The new range of IMH mulching heads

Indeco's new IMH series of hydraulically driven, boom mounted mulching heads are designed to turn any excavator or mini loader into a powerful land clearing tool.

Tailored to fit a wide range of carriers from 5t to 50t, IMH mulching heads feature Hardox components for lasting reliability and efficiency. The IMH mulching head performs a variety of tasks, including tree felling, site preparation, invasive vegetation management, storm damage removal and clean up applications. It is also available in the SG stump grinder version, with low initial investment and reduced maintenance costs. In addition to cleaning up soil quickly, effectively and safely, IMH mulching heads provide a decidedly more environmentally friendly alternative to slash and burn, as well as putting unwanted vegetation back into the ecosystem as mulch, which protects and fertilizes the soil.



## Compact, flexible, versatile and now electric

Developed specifically for the needs of the recycling and waste management industries, Sennebogen has introduced its smallest material handling machine, the 817 E, which is now available with a range of drive options.

The compact Sennebogen 817 is agile and built for continuous use. Thanks to its array of standard production equipment features (such as temperature controlled fan drives, sound insulation and the tried and tested hydraulic system), the 817 holds up under tough operating conditions such as dust, heat and prolonged stress. The machine is designed to work whatever the user requirements, with the 817 E now coming available as an electric material handler.

With an operating weight of around 17t and equipment lengths of up to 9m, the 817 E is specifically tailored for use in halls, in which its energy saving and environmentally friendly electric drives are particularly suited. Sennebogen has been developing electric drives for decades and provides many options. Its electric powered machines with a power pack run on electricity alone, and only need to supply themselves with power from a diesel generator in the tail in order to bridge the time it takes to get to the next supply point. Power supply from the ceiling or via cable drums has proven effective in numerous applications, and this feature is also available for the 817 E.

Solutions with rechargeable batteries are currently the subject of discussion in the market, which simply means they are in demand, but often the price puts customers off from choosing this option. The reason for this is that the technology of battery based machines is not currently suited to the widespread use of machines with correspondingly high power requirements. Such applications would either require replaceable batteries, or would severely limit the machine's duration of use per day, which also reduces the attractiveness of such solutions at present. However, for cases in which the use of battery powered technology makes sense or the general conditions so require its use, Sennebogen is able to deliver such an option upon request.



## New Doosan DX250WMH-5 material handler

**Doosan is launching the new DX250WMH-5 25t Stage IV compliant material handler for use in the solid waste, recycling, demolition and forestry industries.**

Based on Doosan's popular DX210W-5 21t wheeled excavator, the new DX250WMH-5 material handler has been designed specifically for a range of material sorting and handling applications. Designed to carry out the toughest tasks, the DX250WMH-5 is built with front and rear stabilizers, with a boom and arm specifically designed for material handling tasks. A standard feature is the hydraulic cab riser, which gives the operator better all-around visibility of the attachment and work area.

The DX250WMH-5 is easy to operate with ergonomic joysticks and a steering wheel, coming equipped with two-way auxiliary and rotate circuit hydraulics to improve efficiency, with the operator able to use buttons on the joysticks or an optional foot pedal to control auxiliary attachments. It is powered by a six cylinder, turbocharged Doosan DL06PA water cooled diesel engine, providing an output (SAE J1995) of 129.4kW. The engine offers convenience and lower costs by meeting Stage IV emission regulations without the need for a diesel particulate filter (DPF) through the use of cooled exhaust gas recirculation (EGR) and selective catalyst reduction (SCR) after treatment technologies.

A special Doosan developed system, 'Smart Power Control' (SPC), improves machine efficiency while maintaining productivity through variable speed control and pump torque control, automatically adjusting RPM according to the load being handled. As well as other standard features, there are also a number of options available including additional work lamps, cab guarding and frame guards.

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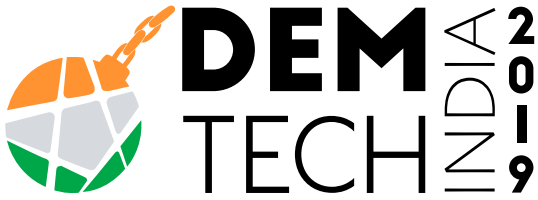
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## **Demtech India** is taking shape

**The agenda for India's first demolition conference, Demtech, is taking shape. 13<sup>th</sup> of November at Hotel Sahara Star in Bombay is the place to be if working with demolition, recycling, remediation or concrete cutting in India.**

**D**emtech India 2019, India's first Indian conference dealing with demolition, recycling, remediation and concrete drilling, etc is starting to fall into place. The conference will be held on November 13 in Bombay at the Hotel Sahara Star, which is right next to Bombay International Airport. In conjunction with the conference, India's first trade association for demolition, recycling, remediation and concrete drilling will be founded with a grand ceremony on the evening of November 13.

In practice, the association, called IDA Demolition Association, is already active and several local meetings with entrepreneurs have been held at various locations around India. Mohan Ramanathan, with many years in the industry, is one of the initiators. "We have met great interest from entrepreneurs around the country, both to the Demtech conference itself and to the association itself. Already today we expect up to 100 members of the association. There has long been a great pent-up need for this, both the conference and the association. In addition, India is growing so it is cracking right now and the outlook is very good," says Ramanathan.

IDA is the main organizer with the support of the company Riverbends Publishing and the global demolition journal PDi Magazine.

### **Heavy sponsors**

A number of large well-known players in the market have chosen to sponsor the event and the fact is that it is a large proportion of technology from all over the world.

The main sponsor is Volvo CE. Associate sponsors are currently Epiroc, Hilti, Sennebogen, Brokk and Aquajet Systems. The next sponsor stage is Affiliate sponsors, which lines up Husqvarna Construction Products, Edifice (an Indian demolition company), Pentrunder, Shearcore with the brand Fortress, Kobelco and Kemroc. All these sponsors will be found with booths in the



exhibition area. However, Mohan Ramanathan expects more sponsors to emerge until November 13.

### **Table Top Exhibition**

This time, which is the first Demtech event, there will only be a smaller exhibition section directly adjacent to the conference and some table top booths where exhibitors have the opportunity to tell about their products. Currently there are four table top exhibitors, Trevi Benne, Rotar, PDi Magazine and IDA Demolition Associations. However, the space is limited and there are a total of 20 so-called "Table Top exhibitor seats". "We have deliberately kept a fairly low profile in terms of the trade fair, but the idea is that Demtech will be held every year and we hope to make a bigger trade fair in the future. This year, the conference and trade fair will be an important place for "net-working", says Ramanathan.

### **Interesting lectures**

India is one of the most expansive countries in the world right now and is the seventh largest country in the world. The population is approximately 1.339 Billion people. BMP is growing by about 7% right now and in the country there are about 200 really big and 120,000 medium and small entrepreneurs working on demolition, recycling, decontamination and concrete drilling. Demand for these services is high, with more professional equipment needed to work with. This is where Demtech comes in as an important part of the process. As Demtech is a one-day conference, it will be





## DR VIMAL KUMAR

### KEYNOTE SPEAKER

Dr. Vimal Kumar, a Mechanical Engineer with distinction from Delhi University (1975), MBA from Indian Institute of Management, Ahmedabad, India (1977) and Ph.D in "Commercialization of New Technologies" from Indian Institute of Technology, Delhi (2001).

As the founder Mission Director, Fly Ash, Department of Science & Technology (DST) he conceived and implemented the Fly Ash Mission and turned around the image of fly ash from "a polluting industrial waste" to "a resource material". Now, country is utilizing 160 MnT fly ash per annum that results in reduction in 75 MnT CO<sub>2</sub> generation by cement and brick industry and generation of business worth Rs. 10,000 crore a year and an employment over 15 lac people.

The expertise and technologies of Fly Ash Mission have been requisitioned by Russia and Dr. Vimal Kumar has led the Joint Working Group of Indian side.

Dr. Vimal Kumar is also National expert for C&D waste management, reuse, processing and manufacture of downstream products as well as for new

a packed program and the project team working with the conference is now working intensively to complete the program. However, there is already a preliminary program. The day begins at 10am with an inauguration ceremony, which will be chaired by a minister of

construction technologies for mass housing and high rise buildings.

Dr. Vimal Kumar has developed National Guideline for Re-use and Recycling of C&D Waste including indicative feasibility report for 8 cities and DPRs for 2 cities for Building Materials and Technology Promotion Council (BMTPC), Ministry of Housing and Urban Affairs (MoHUA), Government of India. 3 National Seminars have also been organized on the subject, 2 with Ministry of Urban Development, Govt. of India and one in Municipal Corporation of Greater Mumbai. He has also been associated with Municipal Corporations of Surat, Greater Hyderabad and Greater Mumbai for setting up of C&D waste processing and re-use facilities.

Further, he has spearheaded the development of mobile plant for in-situ processing of C&D waste and emphasis on deconstruction than demolition in association with BMTPC, MoHUA, Government of India and industry.

Other areas of work of Dr. Vimal Kumar include Waste Management, Environment Protection, development and commercialization of new technologies, technology forecasting & assessment and New Construction Technologies.

He has traveled widely across the globe, published/presented more than 150 papers, been a visiting faculty to renowned management and technology institutes, member of Governing Councils & Research Bodies of a number of R&D institutes and on the Board of Editors of International Journal of Technology Transfer and Commercialization (JTTC), United Kingdom. He has co-ownership to six patents.



## YOUSSEF HALLAK

### NUCLEAR DECOMMISSIONING

Demolition and concrete drilling contractor Youssef Hallak from LT Diamond Drilling will lecture on demolition and concrete drilling at a nuclear power plant in Romanian Cernavodă, which is adjacent to the Black Sea. The nuclear power plant consists of two reactors, which produce about 20% of Romania's electricity needs annually. One reactor is now undergoing a thorough modernization and for this reason it was necessary to remove about 400t of concrete under highly controlled conditions and strict safety procedures. The contractor used, among other things, equipment from Brokk and Tyrolit.

the Indian Parliament. This will be followed by Mohan Ramanathan who will hold a brief welcome speech closely followed by a speech from PDi Magazine's editor-in-chief, Jan Hermansson. Dr Gaurav Bhatiani, who is, among other things, chief economist at the company IL&FS, Ltd, will present the current situation and prospects in the Indian economy with a focus on the construction and civil engineering industry. There will be a number of presentations from the sponsors as well as accounts of different methods. A number of Indian cases stories will be presented as the extension of Bombay's subway, which is undergoing extensive expansion. Here Brokk demolition robots has played an important role in the work. The extensive demolition and dismantling of the Mahatma Gandhi Sethu Bridge, which crosses the Ganges River in Bihar will be presented by the Indian contractor Edifice. The length of the bridge was 5750 m. There will also be presentations by the International Association of Concrete Sawers & Drillers, IACDS's president Michael Findeis and a representative from the European Demolition Association. The day continues with a presentation of an advanced "decommissioning" of a nuclear power plant in Romania where different types of demolition methods were used such as wire sawing and remote controlled demolition robots. Youssef Hallak from LT Diamond Drilling will be presenting the case. Dr Vimal Kumar will present the work at India's largest recycling plant



## GAURAV BHATIANI

### KEY NOTE SPEAKER

Gaurav Bhatiani has over 22 years of specialized experience in the energy and infrastructure sectors, demonstrating excellent management and leadership abilities. Mr. Bhatiani has worked in research, consulting, development, and corporate environments, and successfully delivered on complex and challenging assignments. He has wide exposure in infrastructure space spanning power sector reform; regulation; energy efficiency; renewable energy; urban infrastructure; roads and highways.

In his current role as Chief Operating Officer at IL&FS Limited (India's leading infrastructure and financial services company), Mr. Bhatiani is involved in policy analysis, planning and business strategy, commercial transactions in various infrastructure verticals including energy, urban infrastructure, roads and ports.

From 2010-2015, Mr. Bhatiani worked as Director for Market Strategy and Regulation at the India country office of Statkraft AS (Norway), Europe's largest generator of renewable energy. As Principal Energy Specialist at USAID/India (2003-10), Mr. Bhatiani managed large and complex programs in power sector reform, electricity distribution, energy efficiency and renewable energy.

Prior to joining USAID, Dr. Bhatiani worked at the Tata Energy Research Institute (now The Energy and Resources Institute - TERI) and was involved with several innovative projects on power sector reform and regulation, working closely with policy makers, utility leaders and regulators. He holds a Ph.D. in Energy Economics and Masters in Business Economics from the University of Delhi and a Bachelors in Electrical Engineering from the Indian Institute of Technology. He is a featured speakers in leading conferences in energy, steel and related sectors.



C-Farm. Time will also be given to visit the exhibition area, partly through regular breaks, at lunch and during an hour in the afternoon. The conference day ends with a panel discussion. IDA will then hold its first committee meeting before the festivities in the evening begin with a gala dinner and the dedication of the association. A more detailed programme can be found close by.

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## JOAKIM FURTENBACK

### SAFE AND EFFICIENT DEMOLITION USING REMOTE CONTROLLED ROBOTS

Joakim Furtenback, from Brokk AB, will make a presentation about how Brokk, the maker of remote controlled demolition robots, went from being a small family based company to become the 'standard setter' for equipment used on demolition or tunnelling sites throughout the world. The unique remote control of the robots ensures that the operator is located away from noise, dust and vibrations. Additionally the robots are purpose

built for demolition, providing performance superior to any conventional excavator, resulting in Brokk demolition robots being successfully used today in the city of Mumbai. Joakim Furtenback has been sales director of Brokk since 2011, before that he was managing director of Brokk Asia Pacific based in Singapore, and prior to that area manager for the same region. Altogether he has been employed by Brokk for some 16 years.



## WELCOME ADDRESSES FROM IDA AND PDI

Mohan Ramanathan, initiator of IDA Demolition Association and the Demtech India conference, will hold a short welcome speech at the beginning of the conference on 13 of November in Mumbai. The international demolition journal, PDI Magazine is official media partner and promoter internationally of Demtech India 2019. Jan Hermansson, Editor-in-Chief for PDI Magazine, will also hold a short welcoming speech at the conference.



## HIGH RANKING INDIAN POLITICIAN TO OPEN DEMTECH INDIA

The Demtech India conference 2019 will be opened by a high ranking politician from the Indian parliament. At this moment a few different names are being discussed, meaning that PDI is not able to reveal who will open the event at this stage. More information can be found at [www.demtech.in](http://www.demtech.in) shortly.

# Demtech India Agenda

**Date:** 13th November, 2019 **Venue:** Hotel Sahara Star

10:00 AM	Inauguration	By Indian Politician - Chief guest
10:30 AM	Welcome Address IDA	Speaker: Mr. Mohan Ramanathan
10:40 AM	Welcome Address PDI	Speaker: Mr. Jan Hermansson, Editor-in-Chief PDI Magazine
10:50 AM	Key Note Speaker:	Indian Construction Economy - Today and the Future Speaker: Dr. Gaurav Bhatiani - Chief operating officer - IL & FS Ltd.
11:20 AM	Tea break	
11:35 AM	Volvo CE Headline sponsor presentation	Speaker: Volvo CE India
11:45 AM	Epiroc Associate sponsor presentation	Speaker: Epiroc India
11:55 AM	Hilti Associate sponsor presentation	Subject: Controlled Demolition using advanced Diamond technology Speaker: Mr. Sheikh Kaamil, Hilti India Pvt. Ltd Dr. Martin Goedickmeier, Hilti Liechtenstein
12:05 PM	Case Story Subject:	Making cross passages in Mumbai Metro Line 3 Speaker: Mr. Sunilkumar Vishwakarma, Head Planning, CEC-ITD Cem TPL JV Company
12:13 PM	Brokk Associate sponsor presentations	Subject: Safe and efficient demolition using remote controlled demolition robots Speaker: Mr. Joakim Furtenback
12:21 PM	Aquajet System Affiliate sponsor presentations	Speaker: Mr. Bjarne Axelsson
12:29 PM	Sponsor Presentations	Vacant
12:39 PM	Indian Projects Case study #1:	Dismantling of MG Sethu Bridge Edifice Engineering To be decided
12:49 PM	Indian Projects Case study #2	To be decided
12:59 PM	Indian Projects Case study #3	International speakers, National speakers to be part of this
01:09 PM	Press Conference with Indian Press:	
01:40 PM	Lunch	
02:30 PM	European Demolition Association:	Speaker: Mr. Francisco Cobo, President and Mr. José Blanco, Secretary
02:45 PM	International Association of Concrete Sawing & Drilling Contractors:	Speaker: Mr. Michael Findeis, President
03:00 PM	Presentation of case story:	Nuclear decommissioning. Speaker: Mr. Youssef Hallak - LT Diamond Drilling
03:20 PM	Presentation of case story:	Recycling C&D waste, C-FARM Speaker: Dr. Vimal Kumar
03:30 PM	Exhibition Networking	
04:00 PM	Tea will be served	
4:30 PM	Panel discussion	
	Exhibition networking will continue	
5:00 PM	Break. IDA committee meeting will be conducted separately.	
7:00 PM	Entertainment	
	Official launch of IDA Demolition Association	
8:00 PM	Cocktail and Networking with Music	
9:00 PM	Gala Dinner	



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## CONTROLLED DEMOLITION USING ADVANCED DIAMOND TECHNOLOGY

Dr. Martin Göedickemeir, the head of Diamond Service Contractor Segment, Business Unit Diamond Systems at Hilti in Liechtenstein, and Mr. Sheikh Kaamil, Heavy Diamond manager at Hilti India Pvt. Ltd. have announced they are to hold a joint lecture. The subject will be: 'Controlled demolition using advanced diamond technology'. Further information is available on request.



Francisco Cobo



## HYDRODEMOLITION, THE SUPERIOR METHOD

Account Director Sales at Aquajet Systems AB, Mr Bjarne Axelsson, will explain the superiority of using hydrodemolition techniques for concrete repair and demolition.



## SAFE AND EFFICIENT HIGHRISE DEMOLITION EQUIPMENT

Mr Prashant Bharadwaj, Head of Volvo CE Business Unit South India, will hold a lecture concerning safe and efficient highrise demolition machines and equipment at Demtech 2019 in Mumbai.



Michael Findeis

## DISMANTLING OF THE MAHATMA GANDHI SETHU BRIDGE

Mr Uttkarsh Mehta, partner Edifice Engineering India, will present the complicated project to dismantle the Mahatma Gandhi Bridge in India.



## PRESIDENTS OF EDA AND IACDS TO SPEAK AT DEMTECH INDIA

EDA, European Demolition Association's president Francisco Cobo and IACDS's (International Association for Concrete Cutters & Sawers) president Michael Findeis will participate at the Demtech India conference 13 November. Both will hold lectures in their fields respectively.

Read more news and reports at:  
**www.pdworld.com**

## SUNILKUMAR VISHWAKARMA

Mr. Sunilkumar Vishwakarma, Head of Planning for Tata Projects, Mumbai Metro CIT JV, will hold a lecture presenting the current extension of the Mumbai Metro.

Mr. Vishwakarma has an education in BE Construction at Mumbai University, 1998-2002 and is educated at PGDCM, NICMAR between 2004-2005.

Mr. Vishwakarma has 17 years of experience majorly in planning & monitoring, tendering, estimation, co-ordination, project management and business development for underground works in hydro and metro sectors. He has worked in projects like Collectors' tunnel, & Ghatghar Dam, Maharashtra, Chamera-III & Sainj HEP, Himachal. He is currently working for the Mumbai Metro Line-3 project since July 2016 to present.

Experiences before that has been Tata Projects, RO, Mumbai - DGM Planning from May 2013 to July 2016. Additional positions has been HCC (Sainj Hydroelectric Project, Kullu, Himachal Pradesh) - DPM Planning & Control from Jul-10 to Apr-13, HCC (Chamera Hydroelectric Project, Chamba, Himachal Pradesh) - Planning Manager from Oct-05 to Jul-10, HCC (CEMG dept, HO, Mumbai) - Planning Engineer from Feb-05 to Oct-05, Likproof India Pvt. Ltd; Mumbai - Jr Engineer Tendering from Jul-04 to Jan-05, Patel Engineering Ltd. (Ghatghar Dam Project, Asangaon, Maharashtra) - Engineer Civil from Mar-03 to Jul-04 and Dywidag India Pvt. Ltd. (Collectors Tunnel Project, Mumbai) - Jr Engineer Operations from Jul-02 to Feb-03.

Pradesh) - Planning Manager from Oct-05 to Jul-10, HCC (CEMG dept, HO, Mumbai) - Planning Engineer from Feb-05 to Oct-05, Likproof India Pvt. Ltd; Mumbai - Jr Engineer Tendering from Jul-04 to Jan-05, Patel Engineering Ltd. (Ghatghar Dam Project, Asangaon, Maharashtra) - Engineer Civil from Mar-03 to Jul-04 and Dywidag India Pvt. Ltd. (Collectors Tunnel Project, Mumbai) - Jr Engineer Operations from Jul-02 to Feb-03.



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# DEM TECH INDIA 2019



#### Indian Construction Economy - Today and the future

The lecture will be held by Dr. Gaurav Bhatiani, Chief Operating Officer - IL & FS Ltd.



#### Controlled Demolition Using Advance Diamond Technology

Dr. Martin Goedicke-meier, Hilti, Liechtenstein and Mr. Sheikh Kaamil, Hilti India.

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**13 Nov, 2019**  
**Venue: Hotel,**  
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# Delegate registration



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**Recycling C&D waste, C-Farm**  
Dr. Vimal Kumar will hold a lecture on sustainable recycling of waste in India today and in the future.



**Safe Nuclear Decommissioning**  
Mr. Youssef Hallak will speak about nuclear decommissioning using demolition and concrete cutting techniques.



**Dismantling of the MG Sethu Bridge**  
Mr. Uttkarsh Menta, partner at Indian contractor Edifice will speak about the dismantling of Gandhi Sethu Bridge.



**Safe and Efficient High-rise Demolition Equipment**  
Mr. Prashant Bharadwaj, Head of Volvo CE India South will present the Volvo high-rise range of demolition crawlers.



**The IDA Initiative**  
Mr. Mohan Ramanathan, MD of Act Industries, India and founder of IDA Demolition Association will hold a welcome address.



**Making Cross Passages in Mumbai Metro New Line 3**  
Lecturer holder Mr. Sunilkumar Vishwakarma, Head Planning, CEC-ITD Cem TPL JV Company.



**Safe and efficient demolition using remote controlled demolition robots**  
Speech to be held by Mr Joakim Furtenback, Global sales Director at Brokk AB.



**Global Co-operation and Networking**  
Mr. Michael Findeis, President of will present the IACDS association of global concrete cutters.



**European Demolition Association**  
A representative from EDA will present the work of EDA, European Demolition Association.



**The Demtech initiative**  
Mr. Jan Hermansson, Editor-in-Chief of PDI Magazine and media partner of Demtech will also hold a welcome address.

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## MotoCut cut over 50,000 piles at oil refinery

MotoCut automated pile cutters were in operation at a massive oil industry construction site in Central Asia. The project involved cutting nearly 60,000 precast concrete piles over a period of two years.

### Manually two per day, with MotoCut up to fifty

The ground at the site was a former seabed, which meant that the piles had been specially treated to fit the salty environment: the piles contained stronger and larger diameter steel than usual. On average, one MotoCut cutter was able to cut 30-50 precast concrete piles per day. Manually, the cutting speed would have been two per day as the piles in this project needed to be cut in two directions due to the large number of rebars in the pile.

### Easy to learn, quick to use

MotoCut solution offered increased safety as it is operated by a single person, isolated from the danger zone in the

excavator cabin. The large-diameter steel rebars required cutting in two directions. When the steel rebars were cut, the rest of the uncut concrete was just twisted off using the MotoCut grapples and the off-cut was placed safely on the ground.

### Harsh environment makes MotoCut even stronger

In the giant oil refinery site, the environmental conditions brought extra challenge. The temperature varied between +40°C and -40°C (from 104°F to -40°F). The wind also blew hard in this seabed desert construction site, carrying sand into the machines. In the summer, a tank mounted on the excavator provided water for dust suppression and blade cooling. In the winter, a special water heating system was used to keep water from freezing.

MotoCut pile cutters went through an ultimate environmental testing during the project.

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# Automated Pile Cutters

## Improved occupational safety

MotoCut cutters are excavator attachments that are operated from the cabin, so there are no risks of falling piles, dust, or HAVS issues.

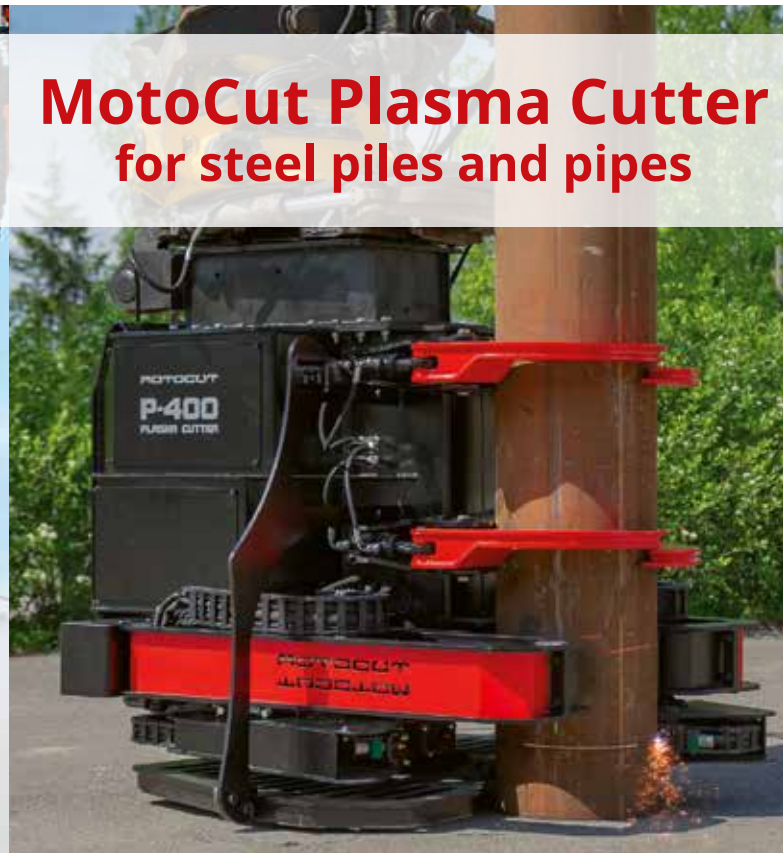
## Excellent quality cuts

Compared to manual cutting, MotoCut cutters offer even five times higher productivity. Cutting results are predictable and cut offs can be reused.

### MotoCut Pile Cutter for concrete piles



### MotoCut Plasma Cutter for steel piles and pipes



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Q-350 | Q-400

Up to 400mm (16")



Q-350S



Q-500S

Full cut up to 500mm (20")



P-400

Up to 400mm (16")



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Tiltrotator attachment

# MOTOCUT





## PENTRUDER MODULARITY

# benefits drilling work

***Norrorts Betonghåltagning AB, a small concrete cutting company from Stockholm, Sweden, knows at first hand the benefits of using the full potential of Pentruder modularity.***

The two Pitkonen brothers, Hannes and Oskar, founded the company Norrorts Betonghåltagning AB some years back. “I started out in demolition in 1994 and got the question if I could drill. The answer was ‘yes of course’, but soon I realized that it was a bit more to it. I eventually got employment at Håltagarna Borrteknik and was trained by ‘the old school guys’ who used to work at Urab, another large concrete cutting contractor at that time. They introduced me to Pentruder. In 2015 me and my younger brother Oskar started our own concrete cutting company, Norrorts Betonghåltagning AB, and from that it all took off,” says Hannes.

Today there are five concrete cutters in the company, and even though it is a small company, the jobs are not that small. Its first real big special job was when a contractor contacted the company with a request to drill three Ø 600mm holes, around 5.5m deep, and located 2m below the surface, in the docks of the Värta harbour in Stockholm. No one really knew how hard the aggregate was nor how heavily reinforced the dock was. “Our first Pentruder was bought for this project, a hydraulic MD1. We tried several different solutions and machines at first, but finally when we got the hydraulic MD; it was like cutting in butter. The drill bit was delivered by our Pentruder distributor Scandinavian Diamondtool Consulting (SDC) and was 2.3m,” says Hannes.

Since a couple of years back, Norrorts Betonghåltagning AB has been contracted by the construction company Implenja for large infrastructural project in Stockholm. One such job involved a large lock and traffic point at Slussen, where boats, cars, subways, bicycles and pedestrians meet in the centre of Stockholm, which is going through a large modernisation process. For Norrorts Betonghåltagning the job involved several



**With the Pentruder MD1 heavy duty core drill, a 15 kW HF motor and auto feed, the Ø 1200mm cut took less than 2h to complete.**

projects, with wire, wall sawing and core drilling. “Last summer we got the task to take down some walls in an old chamber with the Pentruder 8-20HF wall saw. There were no drawings which we could access since parts of it were some sort of old military facility no longer in use. Every time we thought we were done, they found another level of concrete underneath the gravel, and we finally ended up 6m down in the ground. All in all, over 450t of concrete was removed, and this was a job we couldn’t have done without the possibilities to position the Pentruder track feet in different angles, adjust them and also mount one on the floor and the rest on the wall,” says Hannes.

Today Norrorts Betonghåltagning AB have a Pentruder 8-20HF Wall saw, one HF and one hydraulic MD1 Core drill, wire saw modules and a lot of accessories such as a stitch drilling carriage. The newest machine is the MD1, a heavy duty core drill, which really impressed when drilling a 540mm deep and Ø 120 mm hole in a heavily reinforced old concrete bridge beside the Hilton Hotel at Slussen. The set out was 8m up the wall and the cutters had to build a rig that was stable enough for the heavy core which was to be removed. Just the core bit (also supplied by SCD) weighed over 200kg and took quite an effort to get it in place. However, when they started to spin the drill, the cutting didn’t take longer than 2h before the hole was drilled with the Pentruder MD1 core drill.

“For us it is so important with the power and the modularity of Pentruder. The machines are real beasts that are designed for us professional cutters, and they save us a lot of time both in setting up and completing the job,” concludes Hannes.



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## NEW BOBCAT MANUFACTURING PLANT IN INDIA BEGINS PRODUCTION

Doosan Bobcat has officially announced the inauguration and commencement of operations at the company's first manufacturing facility in India in the Tamil Nadu state, located in the outskirts of Chennai. Set up with a planned investment of €24M over the next five years, the state of the art plant is spread across an area of 8.74ha and has an annual production capacity of 8,000 units. It is an integrated facility with fabrication, warehouse, assembly and paint shop all under one roof. It will initially be manufacturing Bobcat backhoe loaders completely designed and developed by the engineering team based in Chennai. This is a new addition to the existing product portfolio of Bobcat in India that currently comprises of several skid steer loader and mini excavator models.

"This new facility will help to meet the increasing demand for backhoe loaders to support the development of India's infrastructure and construction segment. India is one of the key markets for Doosan Bobcat to maintain global leadership in the compact segment of the market. By opening the new factory in India, Doosan Bobcat has taken the next step forward to expanding its global presence and growth strategy. This facility represents our long term commitment to Indian customers, employees and business associates in the nation through development of vendors, promotion of local parts procurement, technology transfer and export," said Scott Park, chief executive of Doosan Bobcat Global.

### Bobcat aiming for top 3 in backhoe loader market

India is the world's second most populous country and one of the fastest growing economies in the world. India's compact equipment market is the third largest in the world after the US and China, with an estimated worth of over €1B. The market demand for compact construction equipment is growing rapidly due to the Indian government's policy of developing the national infrastructure including roads and railways among other things, combined with rising labour costs across the country. The Indian backhoe loader market, which accounts for 80% of the

country's entire compact construction equipment market, is the largest in the world. Since 2014, the Indian backhoe loader market has grown at an average annual rate of 9.7%.

With the backhoe loaders produced at the Chennai plant, Doosan Bobcat is aiming to become the No. 3 player in the Indian backhoe loader market within three years. The company also plans to make this facility a global manufacturing hub for export to other countries and a regional centre of excellence. In addition to backhoe loaders, the company is also looking at localising its other compact products to better suit Indian market requirements. "Of all the emerging economies, India is the key market, showing the most prominent growth pattern fuelled by investment increases in various types of infrastructure across the country. We plan to use the Chennai Plant as our global production base for backhoe loaders and boost their sales around the world and in the Middle East, Africa and Southeast Asia in particular," Scott Park added.

Doosan Bobcat plans to make every effort necessary to expand its presence in India's compact construction equipment market. To that end, Doosan Bobcat aims to establish 25 dealerships and 65 sales networks throughout India by the end of 2019, and to further increase the number of sales networks to 200 by 2024.

### Profit boost

Doosan Bobcat is an industry leader in the engineering, manufacturing and marketing of construction equipment with a turnover of approximately €3.26B in 2018. Bobcat, Geith and Doosan Portable Power brands are part of the Doosan Bobcat portfolio. Headquartered in Seoul, Korea, Doosan Bobcat has its manufacturing facilities strategically located across the world to serve various local markets. Currently there are nine manufacturing facilities across the globe, mainly in the USA, Europe and China. In the January-June period of 2019, Doosan Bobcat posted a net profit of approximately €130M, an increase of 18 % when compared to the previous year.





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Two crawler excavators of 30t and 26t operating weight used the Variolock quick coupler system.

Within seconds, the operator can change the attachment thanks to the Variolock VL 250-2.

## THE VARIOLOCK FULLY HYDRAULIC QUICK COUPLER

# system from Lehnhoff

***The fully hydraulic quick coupler system Variolock, made by Lehnhoff, has recently proven itself on the demolition of three railway bridges on a project located close to the North Sea. Using the system, Rostock company Abbruch Büchert GmbH, was able to facilitate the swift, easy, and safe exchange of attachments that ensured that the company kept to its gruelling schedule.***

In North Frisia, close to Bredstedt and Breklum, three railway bridges required demolition due to being 'worn out', with the Deutsch Bahn (German Railway Company) deciding to replace them with new ones. The contract for the dismantling of the bridges was given to Abbruch Büchert GmbH, with the project set to be completed within 24h. In total, twelve excavators were used, with the fully hydraulic Variolock VL 250-2 quick coupler system from Lehnhoff ensuring that attachments could be changed effortlessly and swiftly.

"Certainly, no spectacular objects but a critical time frame for sure," so said Martin Büchert, chief executive of Abbruch Büchert GmbH. His team had only 24h to

complete the job before the trains to Sylt started moving again, meaning that exact planning and precisely timed working steps were required. Any delays or interruptions meant that the Variolock VL 250-2 system was essential to the successful completion of the project, with attachment changes kept to the absolute minimum.

Work began at 3am, starting with the biggest of the three bridges to be demolished which was situated in the village Bredstedt. The demolition site was illuminated by floodlights, with the bridge demolition requiring a 1,500m<sup>3</sup> embankment and 260m<sup>3</sup> of Ferro concrete needing to be removed. Two crawler excavators with 30t and 26t operating weights respectively were put to work using trench clearing buckets on the embankment. On the other side, another 30t machine worked in parallel. The excavation work ran smoothly thanks to the tilt-able buckets, with the embankment being removed in around 1h. Following this, the bridge could then be demolished, with the buckets being exchanged for hydraulic demolition hammers, the biggest one weighting 4.1t. The use

of the Variolock system enabled a swift, uncomplicated and safe change of attachments within minutes.

After a short while, debris and rubble was piling up high. To keep things organised, one of the excavators exchanged the hammer for a sorting grab to tidy up the demolition site, while the others continued to work on the bridge. Three dumpers were filled up before the sorting grab was once again exchanged for a hammer. The hammers continued their work without any delay, thanks to the fully hydraulic quick coupler unit by Lehnhoff. This meant that there were no breaks due to manual coupling of hydraulic hoses, with the entire exchange being undertaken from within the cabin.

The breakdown of a railway crane used by another company on the demolition project led to a 2h delay, jeopardising the tight schedule of the project. The use of the quick couplers however meant that the project was completed 5h ahead of schedule. Martin Büchert stated: "I can only bow to the inventor of this system. Everyone who has tried this system once will never want to work without it." For his company, fully hydraulic quick couplers can save up to 30% of working time due to the reliability and speed of the system, meaning that Bücher was able to draw up the tight 24h schedule. "In any other case, we most definitely would have needed more time," he adds.

Abbruch Büchert GmbH as a company is not limited to earth works, demolition, dismantling, and disposal, as it also undertakes the construction of protective scaffolds and asbestos abatement. The company has been working with Lehnhoff since the early 90s, and today this is a solid partnership, which has proven itself once again on this special project. "The quick coupler system Variolock VL 250-2 has contributed significantly to a successful completion," says Büchert.



**One last glance at the plan: Martin Büchert (middle) and his team.**



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## Modernisation of the Cernavodă nuclear power plant in Romania

Romania's only nuclear power plant is located in Cernavodă, a small town near the Black Sea coast. The power plant consists of two blocks and produces about 20% of the electricity for the entire country. One of these blocks is now being modernised thoroughly, and for this purpose around 400t of concrete had to be decommissioned in a controlled manner under the strictest safety conditions.

The Romanian company Diamond Drilling SRL, which amongst other equipment, used machinery from Tyrolit to complete the task including the dismantling. Its main assignment was to cut and remove 22 running meters of reinforced concrete walls, 4.5m high and 750mm thick, as well as 9m x 5m high concrete columns with basic measurements of 2.5m x 1.5m and 1.5m x 1.5m. Diamond Drilling SRL used the electric

wire saws WCE14 and SB-E as well as the WSE2226 wall saw from Tyrolit to successfully complete the job.

Despite a very hard concrete quality (HPC 120MPa), as well as bad weather conditions and temperatures below zero, it was possible to cut the project time in half. The employees of Diamond Drilling SRL using the machines from Tyrolit thus proved that even the toughest conditions are no problem for them.





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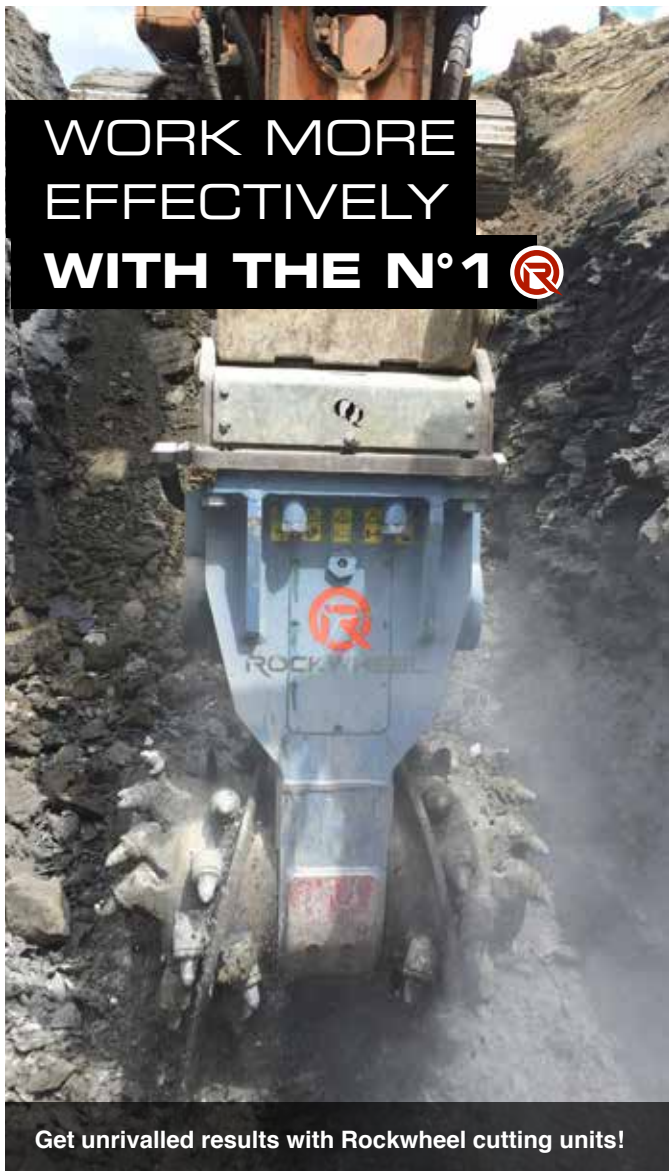
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Jack Midhage is one of the legends of the Swedish concrete cutting industry. He was the founder of the diamond tool manufacturer and building machinery supplier Jack Midhage AB, which is still a major player in the Swedish concrete cutting and rental markets. Internationally Jack Midhage became well-known face for his development of the smart and mobile diamond segment-retipping device, Diatip.

PDi Magazine's editor in chief Jan Hermansson had the honour to work closely with Jack Midhage, in particular during the 1990s. Many of those who have been working within the international concrete cutting industry know and remember Jack, in particular from all the shows he exhibited at with his Diatip system. Jack sadly passed away in 2005, but his legacy still lives on. The company Jack Midhage AB is one of the larger distributors in Sweden, and the Diatip system is sold worldwide from the Midhage Diatip AB company. Today the company is run by Jack's daughter, Carina Midhage and his son Morgan Midhage.

The Diatip system is a smart solution that enables the user of a concrete cutter to retip its core drills themselves, rather than spending money on having someone else do it or by buying new drill bits. With the Diatip device, a sufficient stock of freshly retipped drill bits will always be available ready to work on new jobs right away. Furthermore, the retipping procedure is easy. When a drill bit is worn out the tube is fixed in the Diatip device, and in a few minutes new slots for new segments are cut with the machine. To release the ring of old worn out diamonds, the position of the cutting head of the machine is raised by one height slot and new slots are cut between the first rows of slots. The worn ring of diamonds falls off, and the surface is ready for brazing of new diamond segments.

The Diatip series today consists of four different models of retipping machines. The CD 600 Economy has the same functions as the basic model, but is a sort of

economy version that is easy to transport, and allows retipping even on the worksite, being able to retip core bits up to 600mm. CD 7-28 Manual is the basic model and works without electricity, and can retip drillbits from Ø38mm to Ø700mm. The next model is the CD 7-28 Hydraulic which is run hydraulically, having the same capacity as the CD 7-28 Manual, whilst the CD 7-28 Automatic, makes the whole process of retipping drill bits automatic.

With the latter, the machine cuts off the worn end of the old core bit and makes indexed regulated slots completely automatically. The required number of segments, and the depth of the slots for the segments is then set, with the system equipped with a hydraulic motor for cutting and a PLC controlled electrical motor for feeding. After the cutting is completed, during the brazing process, if the drill is still mounted on the machine the rotation of the bit is regulated by a foot pedal. Both hands are thus free for the silver rod and gas pistol.

Besides the actual retipping machines, magnets to hold the new diamond segments are also produced and sold by Midhage Diatip. Additionally Midhage Diatip also sells silver and flux for the brazing as well as a number of accessories, with the Diatip system today being sold to all corners of the world.

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The 'Junior ride-on', the new compact version of its 'big brother' ride on stripper, is the first machine of its kind manufactured and developed by the Janser company.

Over several years, and after numerous conversations with customers, Janser realised that the ride-on stripper market required an economical, compact,

versatile and powerful 1/230v electric powered ride-on scraper. It needed to be light, but powerful, easy to load into vehicles, and non-reliant on batteries. In addition, it needed to be able to be used at any location, whether on the ground floor or in a high rise building. Following three years of development, the 'Junior ride-on' evolved.

Due to improvement in adhesive technology, the task of removing flooring has become more challenging and time consuming. While many contractors still use hand held small electric strippers and chisels, the 'Junior's' unique design and characteristics have resulted in an essential tool for efficient and effective removal of all types of flooring and materials. Amongst its features is a forward leaning design which places the centre of gravity onto the tooling, providing the sort of performance normally only achieved by larger and heavier floor scrapers.

A working speed of up to 37m p/min, results in the removal rate greatly increasing, useful when removing soft flooring such as carpeting. An extension pole is fitted to the Junior allowing efficient removal of ceramic tiles and timber flooring, whilst a low weight of 420kg enables easy mobility and access with the ability to remove over 100kg of weight.

Ergonomic seating positions and new 'soft touch' lever/controls allows easy operator access and fatigue free work. The combination of these features allows less experienced users to be trained promptly in the Junior's functions. Optimal manoeuvrability in tight spaces is delivered with a front swivel castor and zero turning radius which markedly increases productivity and performance. The Junior rider is supplied with a comprehensive tooling package and directions for use to suit a vast array of flooring removal applications.

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## New products from Hidromek launched at bauma

The new products launched at bauma 2019 by Hidromek are the HMK 62SS, HMK 102S Supra and HMK 102B Alpha Greentec backhoe loaders. Additionally, the HMK 200 W, HMK 145 LC SR, HMK 220 LC, HMK 300 LC, HMK 390 LC HD and HMK 490 LC HD hydraulic excavators, belonging to new H4 series, were also premiered at the show. Hidromek also launched the HMK 600 MG motor grader, HMK

640 WL wheel loader, HMK 130 CS soil compactor, Hicon 7W electric excavator, HMK 635 WL wheel loader, HMK 110 CS soil compactor and HMK 150 W wheel excavator.

By changing the diameter of hydraulic cylinders, tubes and bars, the working speed of H4 Series has been increased. The power boost and the maximum hydraulic system pressure have been improved, which

has led to a faster, more productive and more efficient machine. The HMK 145 LC SR, with its sharp and dynamic lines, is an urban excavator designed to work with power and precision in urban areas and narrow spaces, thereby lessening the risk of damage and improving safety. The HICON 7W is a city excavator with an electric engine and a battery. HMK 110 CS and HMK 130 CS soil compactors can be used in many applications such as utilities, road construction works and construction site preparation of large residential areas, providing high levels of durability with their strong chassis. The HMK 635 WL wheel loader has high engine power, performance and features enabling it to be used in heavy working conditions. HMK 635 WL gives particular importance to comfort and high safety with an ergonomic operator cabin having ROPS/FOPS certification.

Hidromek was founded in Ankara, Turkey, in 1978. Backhoe loaders, hydraulic excavators, wheel loaders, motor graders and soil compactors are manufactured at its six production facilities: four factories in Ankara, one factory in Izmir and one factory in Thailand. Hidromek works with international authorised dealers and also provides sales and after sales services through its centres such as Hidromek West, Hidromek Russian, Hidromek Japan and Hidromek Thailand.

## TANA aims to increase use of tyre derived fuel

Finnish company Tana avowed aim is to increase the usage of alternative fuels in the cement and lime industry. Through the use of its waste shredder, cement manufacturers can produce alternative fuel of the required particle size in one pass.

Due to rapid urbanisation, there is an increasing need for cement especially in developing economies in Asia, South America and Africa. The future lies in the use of sustainable solutions, such as alternative fuels, including tyre derived fuel (TDF), which is an environmentally friendly and cost efficient replacement for materials such as oil and coal that have traditionally been used in cement kilns.

The energy consumption of cement kilns is one of the largest expenditures in cement production. If it can be optimised by switching to alternative fuels, there is a direct effect on cement producers' bottom line. Using TDF reduces fuel costs as the heat value of tyre shred is almost equal to oil, and 25% better than that of coal. Additionally, TDF decreases the NOx emissions produced by cement plants, and makes cement producers less affected by changes in the price of oil.

Tana is a Finnish 'clean tech' forerunner that aims to increase the usage of alternative fuels in the cement and lime industry. With Tana's waste shredder, cement

manufacturers can produce alternative fuel of the required particle size in one pass. The Tana 'Shark' shredder can turn difficult material such as end of life tyres into alternative fuel. The consistent quality of the tyre derived fuel results in high quality clinker. Moreover, it gives better control over the CO2 and NOx emissions in the form of more efficient incineration. Compared

to RDF, there is less variability in TDF which makes the burning process easier to manage.

"Using only alternative fuels in cement production is the future. There are already examples in the market where fossil fuels have been substituted by (up to) 85% with alternative fuels coming out of waste streams," says Josef Imp, vice president, sales, Tana.







## Cutting is the key for the perfect trench

At a jobsite in Assamstadt, Germany, the company Schwarz GmbH from Stachenhausen used a Rockwheel cutting unit for the very first time, proving to be perfect for the required trench excavation.

The Rockwheel D20 has been designed to save time and money by speeding up time consuming processes on construction sites. At the jobsite in Assamstadt, work was carried out on the expansion of a storage building for a woodworking company. Foreman Oswald Lienhardt decided to use a Rockwheel D20 for trenching on this project due to its 1m width, which ensured accurate work to be achieved without any costly filling work.

Before using the Rockwheel, the company used a hydraulic hammer and ripper tooth for excavation and trenching. Using these attachments for this kind of work however creates a funnel shaped trench, which often leads to undesirable breakouts and requires significant filling work on the side walls. Instead of ripping or breaking the rock, the Rockwheel cuts through the material and leaves an even sidewall structure, working 3-5 times faster. The low noise and vibration levels of the Rockwheel means it can be used in residential areas without causing significant disturbance to residents.

The construction team found the precision and quality of the work particularly impressive. "With the Rockwheel, I can mill off just 10mm if the foreman asks me to do so," operator Jochen Kalinkas pointed out. Approximately 480m of trenching was done with the Rockwheel D20 in the layered clay rock soil. "Another great advantage of the Rockwheel is the reusable excavated material," said Oswald Lienhardt. "It is almost like gravel, and can be used to back fill the trench later." This means that the costly disposal of the excavated materials produced by a ripper tooth or a hydraulic hammer was not required.

When filling the trench, the homogeneity and the consistency of the material are the main factors determined by the grain size and mixture. The Rockwheel leaves a consistently small sized grain similar to gravel, which can be used directly for refilling the trench. When solidifying the soil the uniformity of the material plays an important role in preventing the emergence of bumps or sink holes on the surface once the ground settles.



## MB-HDS SHAFTS SCREENER IN THE SPOTLIGHT IN WARTJENSTEDT

Last July, in front of an audience from the media and trade associations, as well as farming and political representatives, a Dutch-German electricity transmission system operator demonstrated how to bury high voltage cables at a lower cost, faster, and above all whilst minimising environmental impact. This was accomplished using 'green technology', comprising of a new special ram that drove empty ducts into the ground with a MB-HDS320 shafts screener then covering it. The MB Crusher unit was chosen due to its ability to change the shafts directly on site according to the type of material needing to be treated.

The pilot project for burying high voltage cables is required by German law for the expansion of the electricity grid. After more than 10 years planning, 230km of underground power lines will connect the transformation substation at Wahle bei Braunschweig in Lower Saxony, with one in Mecklar bei Ludwigsau in Hesse, with the project thus being named Wahle-Mecklar. Its purpose is to significantly increase capacity, stability and security of the grid supply in Germany, thereby meeting ever increasing demand for renewable energy. The unique feature of the project is the need to comply with the necessity of laying the cables underground due to any possible negative effect on the environment as well as other factors. However, as well as reducing any negative environmental impact, the laying of the underground cabling must also be rapidly executed.

Traditionally, the laying of underground high voltage cables meant excavating the ground using large amounts of machinery, people and time. The Wartjenstedt test, however, has demonstrated that underground cabling is possible with minor impact to the existing soil structure, whilst halving costs and construction times at the same time. The test was carried out on a

length of about 200m by laying the pipes for 380kV three phase power cables. The topsoil was removed and stored for reuse, with a special ram digging a duct for each of the three tubes in a 1,200mm wide trench. At the same time, machinery placed the cables directly in the ground. Thereafter, the MB-HDS shafts screener, installed on a Volvo EC250E NL excavator, sifted the dug soil directly above the trench, with the excavation being filled with the same screened material of which it was originally composed.

The MB-HDS shafts screener has been designed to interchange the rotating shafts directly on site, in complete safety, in just a few minutes by a single person. This patented system is made up of a stand that will keep the rotating shafts in place, making it easy to extract and exchange them.





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**HEGER DIAMOND TOOLS**

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Stefan Haag is holding up a diamond blade featuring the brand-new TitanWave segments unveiled at Bauma.



**Unlike the 'golden age' of the 1980s and 90s when diamond tools practically sold themselves, today running a consumables business is an uphill job. Competition is going up all the time while margins are going down. In order to survive and prosper in a cutthroat environment like this, a supplier has to excel at what it does, which is exactly what Heger has been managing to do for over a century now. Andrei Bushmarin reports.**

**A**s far as construction machinery is concerned, Germany is not only Europe's biggest market, but is a hotbed of innovative ideas and trend setting companies. The country's engineering tradition is undisputedly one of the best and long lived in the world. It is small wonder, then, that many German engineering and manufacturing firms, particularly those based in the state of Baden-Württemberg, can trace their history back to the late 19th and early 20th centuries. Established in 1908, Heger by all counts fits into this time honoured category.

## A century long tradition

The original company was founded by Rudolf Heger in Freiburg; a charming university town in the heart of the Baden wine growing region. Back in those days, it was tools for the cutting and engraving of various materials that most manufacturers produced. Later on, abrasive tools with diamond or cubic boron nitride (CBN) embedded in hard metal discs fitted on steel cores came into the picture. Heger was among the companies that manufactured these steel cores. In the 1950s, Heger became part of the development of the sintering technology when it started designing its own sintering machines.

## Management buyout

In the early 1990s, Michael Heger, the grandson of Rudolf, sold the company to a private investor who owned and managed it until 2001. Then, from the early 2000s until 2013, Heger was part of the US based behemoth Illinois Tool Works Inc. Under ITW management, it was merged with the two 'Toolmatic' companies (also

belonging to ITW) based in the Netherlands and Belgium under the umbrella name of Heger. 2013 was a watershed year in the modern history of Heger. It was then that its two managing directors Stefan Haag and Günter Dreyer, following a series of long and strenuous negotiations, acquired control of the company as part of a management buyout. Then, they proceeded to rename the newly bought out company becoming Heger Excellent Diamond Tools. By that time the two partners had accumulated a quarter of a century track record in diamond tools working all sides of the industry: contracting, sales and product management, design and manufacturing. At Heger, all managerial decisions are made together, with Günter Dreyer focusing on R&D, product and sales management, while Stefan Haag is primarily responsible for production and administration.



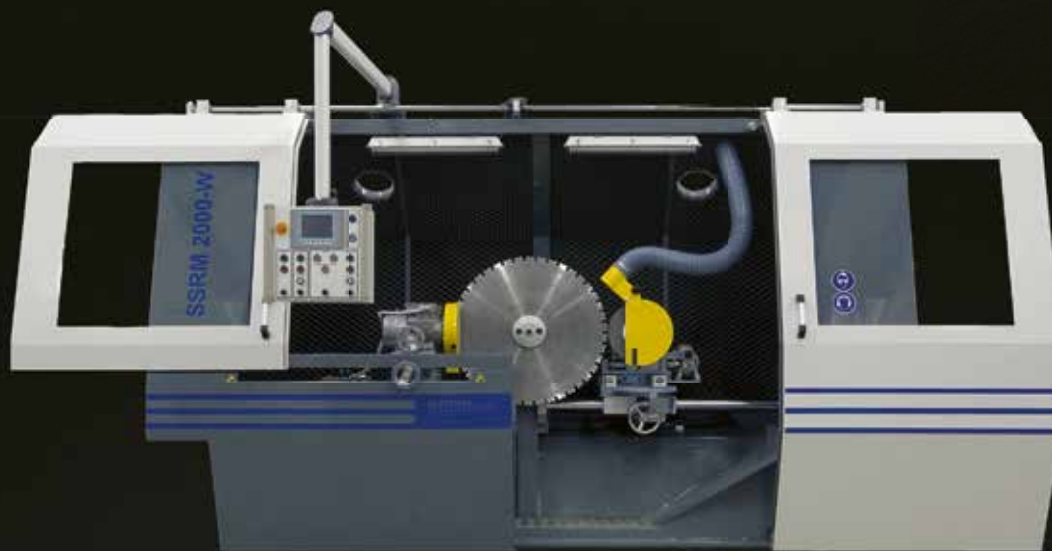
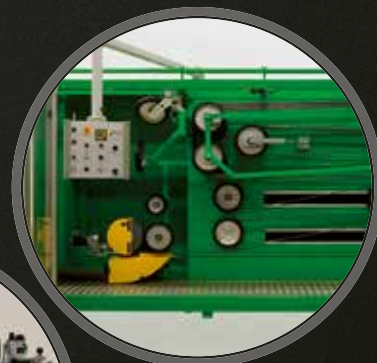
Heger's owners and managing directors Günter Dreyer (left) and Stefan Haag (right).

## New home, new strategy

In 2015, Heger moved into a new 2,400m<sup>2</sup> manufacturing and office facility located in Heitersheim, a small town half an hour drive from Freiburg. The company currently employs some 50 people, with roughly half of them involved in the manufacturing process. Heger produces a full range of diamond consumables for professional contractors serving the construction and



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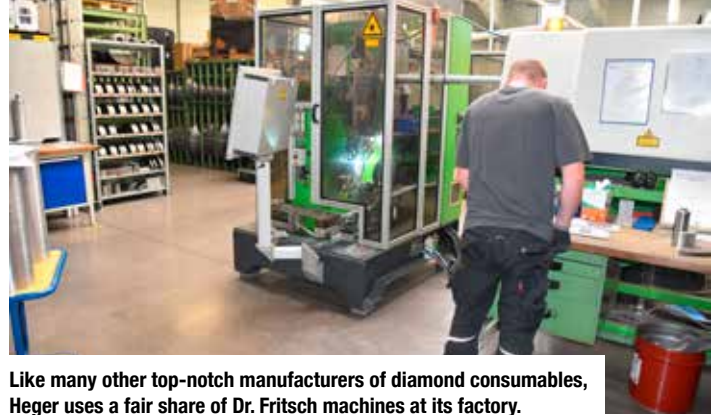
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The Heger 2,400m<sup>2</sup> manufacturing and office facility in Heitersheim, Germany.



Like many other top-notch manufacturers of diamond consumables, Heger uses a fair share of Dr. Fritsch machines at its factory.

refractory industries. The company's strongest suit and unique selling point is the ability to provide project specific diamond products in a fast and flexible manner. Thanks to the fact that both owners (who personally handle every aspect of product development) come from the industry, Heger offers unmatched lead times for customised and specialty tools. As Stefan Haag puts it, "We aim to be the professionals' first choice as far as diamond consumables are concerned."

#### Made in Germany, sold all over the world

Although Heger does have customers in over 40 countries worldwide, it is Germany that accounts for over 50% of the company's sales. This is where the Heger brand is best recognised and customer relations are the strongest. Almost 90% of sales to the domestic market are done directly to contractors by Heger's dedicated sales force. That's probably the reason why the manufacturer favours German trade shows such as bauma,

BeBoSa and Ceramitec. Homeland aside, Benelux, France and Italy make the top three on Heger's list of overseas markets. Heger tools had already been well known in Benelux since the ITW times, and, to further strengthen its presence in the region, in 2013 the German company opened a fully owned subsidiary Heger Excellent Diamond Tools BV in Hoogerheide, Holland. In recent years, Heger has significantly reinforced its position in the Italian market too, thanks, in no small part, to the efforts of its representative Walter Malaguti - a well-respected figure in the national concrete sawing community. Outside of Europe, the Middle East countries and North America are now being eyed by the manufacturer for further expansion.

#### 'We take it personally'

As an industry veteran and the manager of a diamond tooling company, Stefan Haag has a very down to earth view on his chosen trade. He says that all the IT

and social media wizardry notwithstanding, sawing and drilling still remain a person to person business. Understanding your customers' needs is of paramount importance, and the best way to learn them is through personal interaction. And that is something Heger is really good at. Never big on advertising gimmicks and PR stunts, the company prefers to win customers over by offering them high quality products and a prompt efficient service. When asked about promising niche markets, Stefan Haag commented that microtrenching for fibre optic installation and surface grinding to reduce noise pollution on roads and motorways hold a lot of potential. According to him, Heger is already staking a claim in these markets with its products. Diamond blades for microtrenching applications, along with the new 'Titan' wave segments and grinding tools for superhard refractory materials, were the main highlights of the Heger booth at bauma this year.

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## HTC 510 – simplicity in a new, larger size

In January 2019, an entirely new line of floor grinders and dust extractors was launched with the focus on user friendliness and ergonomics. The Start & Grind line is now being complemented with a new grinder – the HTC 510 – bringing the line up to a total of four grinders and four dust extractors. The HTC 510 is a powerful planetary grinder with three counter-rotating grinding heads, making this a versatile grinder suitable for many

different applications. It can be used for everything from stripping floors to grinding and polishing concrete, natural stone and wood. The grinder is available both in a single-phase and three-phase model, from 2.2 up to 4.0 kW, and features a grinding width of 515 mm.

A major advantage of the HTC 510 is the machine's grinding head, which is hermetically sealed, making it entirely dust-proof. This provides unparalleled protection

from dust and moisture, and significantly increases the service life of the enclosed components.

Just as with the other grinders in the line, the HTC 510 chassis can be easily detached (and folded up) from the motor prior to transport. A robust, strong, versatile and ergonomic entry level machine for professional users who want to quickly and efficiently grind small to medium-sized areas.



## THE PERFECT PROFILE

Correct surface preparation is the key to obtaining beautiful flooring that lasts for decades. Claude Besson, from National Flooring Equipment, explains the best techniques for concrete profiling.

Concrete surface profile (CSP) is a standardised measure for the roughness of a surface that has been established by the International Concrete Repair Institute (ICRI). It is expressed with a number from one to nine, where nine represents the roughest finish possible. There are several methods to obtain the ideal CSP, which can be grouped in two broad categories: mechanical and chemical.

### Mechanical methods

Before starting any concrete profiling, it is very important to remove the old coatings using scrapers. In this way, the removal will be achieved in minimal time, and allows the operator to limit dust and broken parts while removing the old material using appropriate blades and shanks for optimal tooling related costs. After this step, one of the most commonly used techniques for mechanical concrete profiling is abrasion using diamond grinding to erode the surface providing progressive disintegration of the concrete, resulting in a flat and relatively uniform surface.

Contractors can also use differences in heat to profile a surface, a method known as expansive pressure. In this approach, the surface is heated very quickly to a high temperature, causing the top to peel off. This is usually done with flame blasting, high pressure water jetting, or steam blasting. To preserve the surface as much as possible, pulverisation can be used, with small

particles travelling at high speed colliding against the surface, thereby removing the top layer. This method causes minimal damage to the surface, being undertaken most commonly by abrasive blasting, sandblasting or shot blasting. Lastly, when a very rough profile is needed, contractors can use the impact technique, which is usually done with a bush hammer or scarifier. In this method, the substrate crumbles as a result of repeated impact by a hardened point, which causes the aggregate and cement paste to crack.

### Chemical treatments

Chemical reactions are used when the job site cannot accommodate large machinery and the substrate is so compromised that hand held devices are not powerful enough, meaning that although considered to be not environmentally friendly, chemical treatments might be the only solution. The method involves applying a solution of water and muriatic or citric acid to the concrete with a low pressure sprayer or a plastic sprinkling, which can remove the superficial cement paste and expose the fine aggregate. Acid treatments produce a very light profile similar to fine sandpaper, and since light profiling is suited to thin coatings, this method is ideal for micro toppings that are less than 10mm thick.

During the chemical treatment, toxic materials can be released, so it's essential that operators wear personal protective equipment such as goggles. It's also important to prevent contact between machinery and acid, since this could corrode any metallic components. Lastly, operators should be aware of local regulations on how to safely dispose of acid and contaminated water.





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## European Demolition Association welcomes Indeco as its newest member

The EDA's newest member is Indeco, an Italian manufacturer of hydraulic hammers which was founded in 1976. Right from the outset, the company has aimed to service market requirements by through the experience and skills of its research and development team and after sales facilities. It has also established countrywide sales networks through direct subsidiaries (Indeco North America, Indeco Mexico, Indeco Brazil, Indeco Australia, Indeco UK, Indeco Northern Europe, Indeco Germany, Indeco India) and a trusted dealership network. This philosophy has enabled Indeco to become a leading brand in the global demolition industry.

Some of its products include: hydraulic demolition breakers, steel shears, fixed and rotating hydraulic pulverisers and multiprocessors, hydraulic compactors and multi grabs, boom systems and mulching heads. The company has recently claimed a 'world first' with the introduction of the first 'intelligent breaker', which is the result of Indeco's continuous research program and commitment to high quality production that offers a perfect excavator-tool match according to the needs of the end users.

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

## Polish company Technika Diamentowa newest member of IACDS

Technika Diamentowa is a company focused on concrete cutting and drilling. It was founded in 2014 with just one man and one drill, and since then it has become a team of 25 and over 150 tools, comprising of drills, wall saws and wire saws. It is currently one of the largest concrete cutting and drilling companies in Poland, drilling in reinforced concrete, stone, brick, granite, and other building materials used in the construction of buildings, viaducts, bridges, ventilation, water, sewage, heating, gas and electric installations. The company cuts concrete with the help of large diameter cutting diamond blades which are used to create precise wall openings, conduct demolition works, remove stairs, ceilings, and enlarge ventilation openings. It is

also a precursor in the field of testing anchors glued with injection resins and mechanical anchors. Technika Diamentowa is located and primarily operates in Poland, but also undertakes larger projects in other parts of Europe.



## Julie White elected chair of Drilling & Sawing Association

Julie White, the managing director of D-Drill – a diamond drilling and concrete sawing company with offices across the UK – has been elected as chair of the Drilling & Sawing Association.

Julie White, who has recently stepped down as president of the international association IACDS, has been running D-Drill since she completed a management buy-out in 2008. Throughout that time, steps have been taken towards unifying the construction sector along the supply chain; however there is still a great deal of work to be done.

"I am delighted to take on the role of chair of the Drilling & Sawing Association," says Julie White. "My father and D-Drill actually set up the association in the early 1980s when no one had even heard of our trade, so I am very proud to move into this role and to follow in his footsteps. I really want to use my time as chair to ensure that companies across our sector understand the benefit of being part of this association, and how we can work together to resolve issues that affect us all, but also learn from each other too."

## Details announced for National Demolition Association's Convention & Expo in Austin, Texas

The National Demolition Association's Demolition Convention & Expo is set to gather more than 1,000 demolition professionals from across the US to better build relationships and strengthen practices within the industry.

Things to look forward to at the convention includes a new hotel, the Fairmont Austin, which was recently opened in March 2018 and is conveniently connected to the Austin Convention Center, as well as the return of the 'Live DEMolition' event to 'Texas Disposal Systems' on 23 February 2020. Here attendees can test equipment or tour the exotic game ranch with more than 2,000 mammals, reptiles, and birds.

Confirmed exhibitors include BD Electrical, Benlee, Brokk, Buffalo Turbine, Caterpillar, C&DR, Company Wrench, Dykon Explosive, Demolition Corp, Demolition & Recycling International, Epiroc, Eagle Crusher, EMR USA and Husqvarna Construction Products.



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