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0.0001 – 0.0005 mm



The respirable dust particles of crystalline silica are so small ($0.1\text{--}5.0\text{ }\mu\text{m}$) that a dust extractor with a HEPA H13 filter is needed.

KNOW YOUR ENEMY

When you work at a construction site, the air surrounding you could contain substances that are harmful if inhaled, even in small portions. For instance, dust from cutting, drilling or grinding concrete, brick and similar building materials contain crystalline silica, which can be hazardous if the very small (respirable) particles are inhaled. These tiny little silica particles might hover in the air for hours, invisible to the naked eye. That's why many authorities have implemented rules and regulations for permissible exposure limits.

But no worries. With the right knowledge and equipment, it's not complicated to protect yourself and your workmates from inhaling harmful dust. The trick is to always use equipment and work methods that capture the dust directly at the source and prevent it from becoming airborne. With Husqvarna's leading-edge system solutions, you can be sure to handle the concrete dust and slurry in a safer, cleaner and more efficient way on your worksite.

Read more about concrete dust, why it can be harmful and how to protect yourself at www.husqvarnacp.com or contact your nearest Husqvarna representative today!

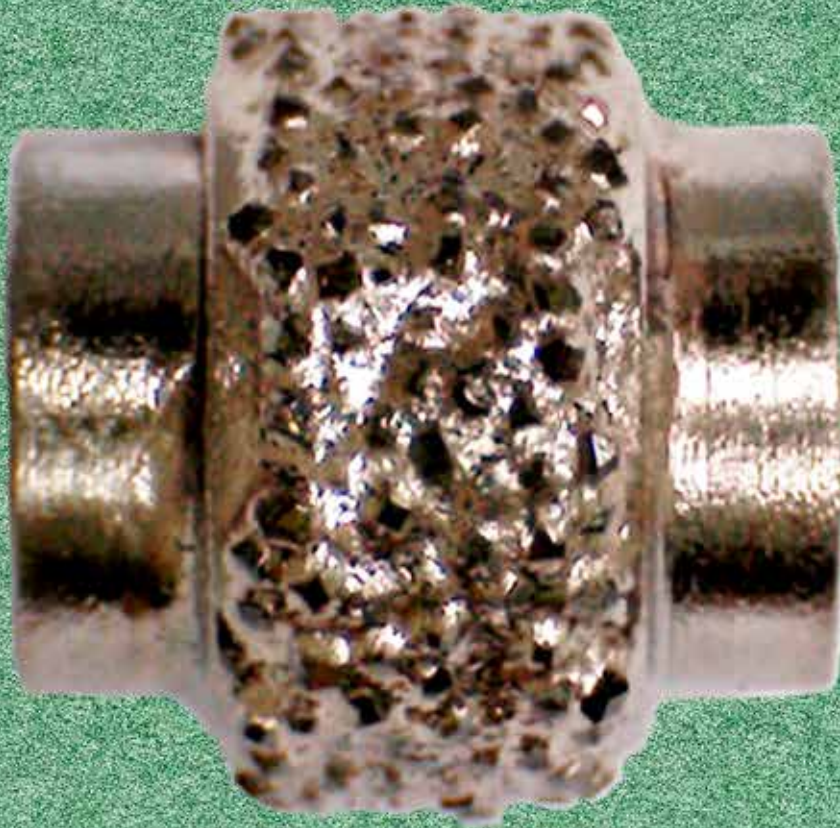
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Words from the IACDS President

PDi Approaching 20 Years

Dear Readers

It is 17 years ago and at about this time of year that we started designing the layout for the first issue of PDi Magazine. At that time the aim was to publish four issues a year and in the early years the number of pages in each issue where only half the number they are now.

To launch a specialist international magazine has been quite a struggle for our small Swedish publishing house when competing with much larger publishers, mainly from the UK and US. But I am proud to say that we have succeeded thanks to a number of things. We are passionate and truly devoted to reporting about the global demolition industry and that commitment has continued and strengthened over the years.

This would not have been possible without our very experienced and dedicated staff, who are amazing and doing a tremendous job producing each issue of PDi. I am very proud to have Anita do Rocio Hermansson, Andrei Bushmarin, Markus Leo, Mikael Karlsson, Jim Parsons, Kevin Mayhew, Darren Dunay, Luiz Carlos Beraldo and Roger Murrow, among other professionals, on our team.

Of course PDi would not have survived if it were not for the great and continued support of our advertisers, and readers who provide us with so much valuable feedback.

Being a Swedish publishing company within the construction industry we have an ocean of knowledge from Nordic manufacturers and contractors to draw from. We are so thankful for that which was also the initial reason why PDi was founded. The foundation for PDi started with our Swedish national magazine Professionell Demolering first published in 1995.

In 2000 it was decided to expand internationally by launching the magazine Professional Demolition International. PDi is now approaching its 20th anniversary and the magazine is now more popular than ever and we are very proud and thankful for that. We aim to continue publishing interesting stories about the industries we cover encompassed in the global demolition industry.

There is so much interesting material to publish, contributed from our readers and by our expert team of editors. It has been very encouraging to see the size of the issues continue to grow, but we have decided to continue publishing the magazine bi-monthly for the foreseeable future.

This issue contains many news releases, site reports, company profiles and special features, including our popular feature on new concrete floor grinding and polishing machines and tools.

Thank you for reading PDi Magazine and we would welcome your feedback.

Jan Hermansson
Editor-in-Chief
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HALF A CENTURY OF CONCRETE CUTTING

We are approaching a major landmark at D-Drill – we are celebrating 50 years since my dad, Peter, set up this fabulous business in an amazing sector.

I don't like to use this column as a plug for my own business but I did want to reflect on those years and also the part all of the trade associations across the world have played in our survival and growth over that half of a century in operation.

My father has always been a big believer in sharing knowledge and ideas through the associations and that is something I have been extremely keen to carry forward.

The role of president is something I never expected and I am thoroughly enjoying the role but, as ever, I would always welcome feedback from fellow professionals on how we can do things better and, also, any changes in the industry that you want to share or give a view on.

Of course, a great deal has changed in 50 years. The Beatles' Sergeant Pepper album was the biggest record in 1967 – it's Ed Sheeran nowadays, although apparently vinyl is back in – just as I have mastered streaming!

And, because of the anniversary, Sergeant Pepper was also one of the biggest albums of 2017 too. It just shows that if you get things right, you will be able to stand the test of time.

I love my dad's stories from when he first set up. He started from home when it was brand new technology. The local telephone box was where he took orders and made things happen before he moved into the company's first offices.

It all sounds like a world away from where we are now with modern technology and, of course, it is.

So why has D-Drill stood the test of time over the past 50 years? I don't think there is a secret to our success but I do believe that we have managed to evolve with the times and also stick to the principles that my father founded the business on.

We've embraced new technology and, when we've had to, even invented it to make sure we could deliver a contract for a client.

Our ethos has always been to find a way to deliver what our customers want. In many cases – and I am sure you will all totally get

where I am coming from here – the customer doesn't actually know quite what they want.

They know they have a problem, and here at D-Drill we help them to come up with the solution – and I am sure you are all exactly the same.

When I talk to Peter about it, he says that's always been the case. He'd very often get a call that started: 'we've got a problem and we are not sure what to do' and he'd always find a way of solving it.

Technology has changed dramatically and helps us all to come up with new solutions but, for me, that can-do attitude is the reason for our longevity.

It's not the machines or the computers that come up with the solutions – it's people. Where some turn away from a challenge, we want our engineers to face it head-on and to go the extra mile in delivering what the client needs and beyond.

So while D-Drill has always embraced new technology, new methods of working and, at times, been the standard bearer for those, it's that mindset that I think is what has been our biggest asset.

Clients don't really mind which piece of kit did the work for them. I don't get emails thanking me for using a certain piece of equipment or for the technology involved.

The messages of thanks I get through from clients about our offices around the UK tend to be ones that talk about members of our team and how they saw the problem, devised a solution and then executed it on time and on budget. I am sure that is the same the world over.

As I said above, I don't like to use this column for the purposes of blowing D-Drill's trumpet but because of the anniversary I wanted to reflect on that history.

And, knowing you all as I do, I am confident that the kind of ethos I am talking about is something you apply in your business.

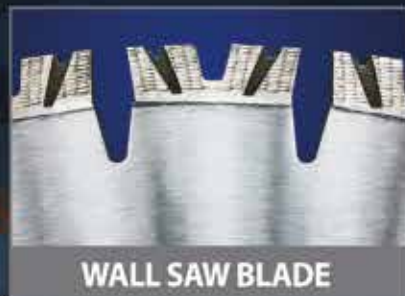
I'd love to hear about your successes and your great stories because I think by sharing our knowledge and our way of working is what has helped us all to progress over the past 50 years and will stand us in good stead for the next 50.

Julie White, President of IACDS



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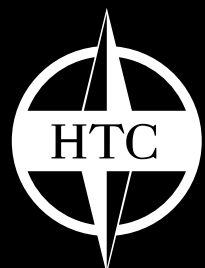
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Words from the EDA President



European Demolition and Decontamination Annual Convention 2018

The European Demolition Association is inviting contractors, manufacturers and associations of demolition and decontamination industry in Europe to participate in the Annual Convention 2018 to be held in Vienna, Austria on 7 to 9 June.

Conference and networking

The Annual Convention is a multi-lingual conference where the most important and relevant topics will be approached by professional experts. These activities would provide an opportunity to meet professionals involved with the demolition industry.

Activities

The Annual Convention offers a joint event where all the related industries could work together towards their mutual goal. In order for that, the event offers an important technical programme, with a full day conference about new developments, case stories and round table discussions.

With recognised experts and practitioners as speakers, the programme will highlight the latest developments and innovations in selective demolition and decontamination, among others.

On Friday 8 June, delegates will enjoy several conferences with speakers from all over the world to open the debate about the industries that join into the demolition area. At the same time, there will be a leisure programme, providing an opportunity to discover Vienna, with diverse activities organized as the welcome cocktail, the gala dinner and visits to the most emblematic places of the city.

During the three days, contractors, suppliers, association's representatives and other related professionals will have

the opportunity to network with each other. Among all the activities, there will be coffee breaks at the exhibition area.
www.europeandemolition.org/convention/

About EDA

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

info@europeandemolition.org
www.europeandemolition.org



William Sinclair



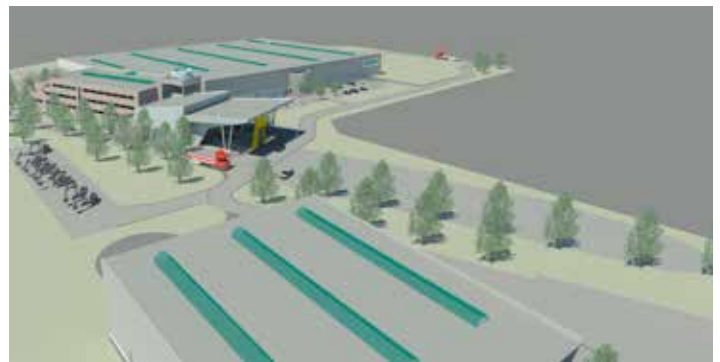
Deutz acquires Italian sales and service partner IML Motori

The German engine manufacturer Deutz has acquired its long-standing Italian dealer IML Motori, based in Lomagna near Milan. IML Motori has worked in partnership with Deutz since it was founded by the Keller family in 1904. The company operates a national service network in Italy and Romania and is Deutz's exclusive sales partner in both countries.

The subsidiary IML Service and the Romanian sales and service company IML Motoare also form part of the acquisition. Through the takeover, Deutz is looking to drive growth in its service business and increase its proximity to customers in the Mediterranean. IML Motori generated around revenue of €45M in the

most recent financial year. The company is to trade in Italy under the name Deutz Italy.

Deutz purchased IML Motori primarily to strengthen its international service business. "This acquisition is in line with our strategy of investing in the company's service network in selected locations in order to drive further growth in this profitable segment. The increasing technical complexity of the engine business also requires close contact with our customers. The acquisition of IML Motori will mean that our Italian customers benefit from even more Deutz expertise locally and from a more intensive customer relationship," said Deutz sales, service and marketing director Michael Wellenzohn.



Hyundai opens new European headquarters

Hyundai Construction Equipment Europe has officially opened its new headquarters in Tessenderlo, Belgium. Management from the Korean headquarters, national and regional government, the European dealer network, national and international press and personnel all participated in the celebration on 6 October.

The new head quarters complex comprises a three-story, 5,400m² office building,

a 13,000m² parts warehouse, a Hyundai Academy, an event hall and a showroom. The construction works represent an investment of €30M.

On the 81,000m² area the capacity of machine parts supply will be doubled, customers will be welcomed and the dealer network will receive commercial and technical trainings.

www.hyundai.eu

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Prinoth Panther expands representation

In the US the Prinoth Panther has appointed Thompson CAT of Memphis as its representative for Western Tennessee and Northern Mississippi.

The Panther line was selected by Thompson CAT because it is powered by Caterpillar engines. Prinoth manufactures premium vehicles that resonate well with Caterpillar dealers. The Panther fleet will be added to the dealership's CAT Rental Store. "CAT Rental Stores provide niche equipment such as ours an unprecedented window to the construction market," said Prinoth vice president sales Alessandro Ferrari. "We are very excited to welcome Thompson CAT into the Prinoth."



Hatz launches portal for online documentation

Motorenfabrik Hatz has created a new online portal, providing customers with important documentation for engines, as well as information on their installation and operation. Up-to-date Hatz online documentation saves time and helps avoid paper waste resulting from unnecessary documents.

www.hatz-diesel.de

Internal market must become single and digital

The European Union's internal market must become truly single and digital if Europe's agricultural and construction machinery industries are set to thrive in the future. This was the key message during a debate organized at the European Parliament on 11 October by sector associations CECE and CEMA and the European Forum for Manufacturing. The debate focused on two essential questions: how to close remaining gaps in the internal market and how to make it fit-for-purpose in the digital age.



Keltbray meets low emission zone compliance

In the UK Keltbray Group is one of the first companies to pass a number of certified external audits for compliance with the Non-Road Mobile Machinery low emission zone requirements in London.

These requirements came into force in 2015 and aim to improve air quality by reducing key pollutants, such as nitrogen oxides and particulate matter from burning fuel such as diesel, petrol and natural gas.

Keltbray's environmental team has been working with its plant department to ensure the company's machines meet these requirements. "We are committed to environmental improvements across our business, and although this is a tiered directive, we and a number of our clients are now working towards ensuring that our plant meet some of the stages ahead of the 2020 deadline to demonstrate good practice," said Keltbray energy manager and environmental advisor Jenny Cottrell.

"We have retrofitted over 20 machines with custom made dcl units. Although this is a considerably bigger investment compared to using generic bolt-on units, we have found that the fixed design relative to kW output is not suitable for our demanding demolition environment. Our investment in retrofit technology means that we get full life value from our fleet, whilst maintaining environmental and NRMM compliance with best available technology. Auditors have recently visited a number of Keltbray sites and we are pleased that the results confirm NRMM compliance."

"We know what to expect on Keltbray sites, as they always keep an eye on the ball," said Merton Council lead auditor Andrew Gordon. "The systems in place are demonstrably effective in procuring compliant plant and identifying non-compliant items and implementing rectifying measures when required."



Hilti continues positive trend

Hilti Group increased sales by 7.5% to CHF 3,279M (€2,838M) in the first eight months of 2017 compared to the corresponding period last year. The operating results were up by

16.2% on the same period of 2016, driven mainly by the extended product portfolio and the consistent expansion of sales capacities around the globe.



Factory expansion again for Dynaset

Dynaset is preparing for future further growth by expanding the factory in Ylöjärvi, Finland. Construction has started on an additional expansion that will be completed in 2018.

There have been several expansions and improvements since the plant was built in 2001. In 2005 the premises was extended for the first time and in 2007 an additional building was added. And in 2011 the premises was further expanded prior to the latest extension.

www.dynaset.com



ALLU appoints distributor for Argentina

The Finnish manufacturer ALLU has appointed Igarreta Maquinas as its distributor in Argentina. The company will be supplying the range of ALLU Transformer and Soil Stabilization equipment and providing aftermarket care, spare parts and customer service.

Igarreta Maquinas, based in the capital Buenos Aires, is an established name through Argentina, and is also Komatsu's only official distributor in the country. The company has placed an emphasis on developing long term partnership relationships with its customers, with continual training and development of its employees being key to its success. With offices, workshops and service engineers throughout the country, the company, since its foundation in 1999, has serviced the requirements of the Argentinean construction, mining and forestry industries.

In addition to the local support Igarreta Maquinas will be able to call on round the clock support from ALLU's head office in Finland. "We are sure that the combination of ALLU equipment and global aftermarket support, together with the local knowledge and industry expertise of Igarreta Maquinas will enable ALLU customers throughout Argentina to benefit from a winning combination," said ALLU group marketing manager Marjut Lindroos.



Hilti board changes

Hilti Group Board director Tis Prager will leave Hilti at the group's April 2018 annual general meeting due to internal term-of-office limitations. "As a longtime member of the board, Tis Prager greatly contributed to the Hilti Group's development. We want to offer our most heartfelt thanks for his substantial commitment, which was characterized by a great deal of expertise and competence," said Hilti Board chairman Heinrich Fischer.

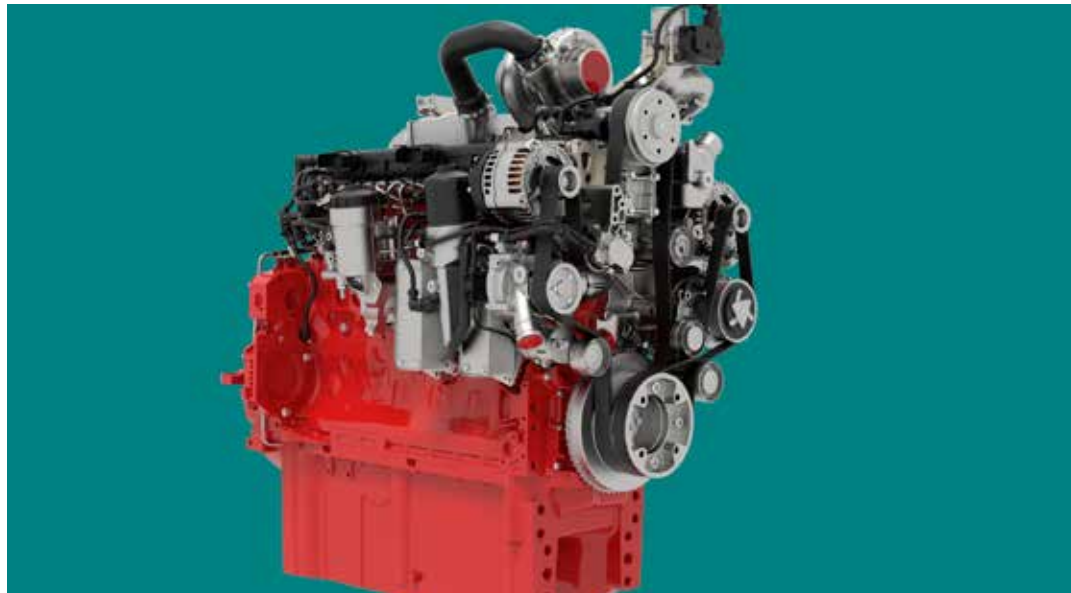
Prager will be succeeded by Daniel Daeniker, managing partner of the Homburger commercial law firm in Zurich. Daeniker's professional focus is in the areas of mergers and acquisitions, corporate governance and capital market law. He also holds a board mandate with dormakaba Holding, is a member of the supervisory board of Rothschild and a lecturer at the University of Zurich.



Hyundai appoints new marketing manager Europe

Hyundai Construction Equipment Europe has appointed Paul Sysmans marketing manager Europe. Sysmans is a B2B marketing and sales leader with more than 30 years of senior management experience with capital equipment companies, of which over 15 years has been in developing and managing international distributorships.

www.hyundai.eu



Deutz awarded further certificates for EU Stage V

The German engine manufacturer Deutz was the first engine manufacturer worldwide to be certified for EU Stage V for mobile machinery when its TTCD 6.1 obtained certification for the emissions standard, which comes into force in 2019. The company's TCD 3.6 and TCD 4.1 have now also been certified with Deutz holding the Stage V certificate with the number 0001.

The German Federal Motor Transport

Authority officially certified the current Stage IV Deutz TCD 3.6 industry variant engine for Stage V in September. Equipped with a diesel particulate filter, this water-cooled, four-cylinder engine generates 100kW at 2,300revs/min. Similarly the Deutz TCD 4.1 agricultural machinery variant was also certified for Stage V. The engine meets the requirements of EU Stage V with DVERT selective catalytic reduction and particulate filter. The four-cylinder

engine generates maximum output of 120kW at 2,100revs/min.

By obtaining this certification Deutz said that it is delivering on the promise it made about the new emissions standard under the banner 'Our Promise – Your Flexibility'. The company expects to be awarded more certificates when Deutz's range of certified engines will be making their worldwide debut under the new Stage V certified seal at Agritechnica.



KOBELCO APPOINTS NEW FINNISH DEALER

Kobelco Construction Machinery Europe has appointed KH-Koneet as authorised Kobelco dealer partner in Finland and will help to improve the servicing of Kobelco customers across the country.

"Finland is historically an important country for Kobelco and we are delighted to welcome

KH-Koneet as our new authorised dealer partner," said KCME EU Maghreb Russia CIS sales and field marketing department general manager Philippe Le Bourhis. "The combination of KH-Koneet's experienced staff, excellent reputation and positive drive will ensure a successful partnership in the Finnish market."

Prinoth appoints Kentucky dealer

Prinoth has appointed Kentucky Machinery as its dealer for the entire state of Kentucky.

Kentucky Machinery will sell and lease Prinoth products. The company was attracted to Prinoth because they were seeking a high-quality crawler carrier line and were especially looking for rotating dumpers to offer to their own clients. Kentucky Machinery has already purchased many Panther T14Rs and the first one was in October at the ICUEE.

"We're thrilled to have found this new dealer in Kentucky," said Prinoth sales director Doug Little. "What's great is they will be able to participate in ICUEE with us and have their brand new Panther T14R on display in our booth and get to know the market for tracked vehicles really well by attending the show with us."

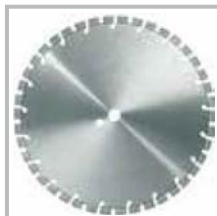




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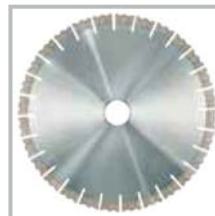
EDIA
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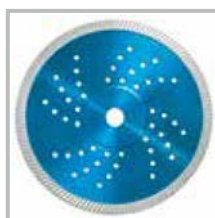
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RAMMER EXPANS

In PDi 4 a special feature on new demolition attachment was published. Unfortunately four new releases from Rammer was not included in the feature. So here are a summary about the new products. Rammer has expanded its range of attachments and demolition tools to include cutter crushers, scrap shears, pulverizes and grapples.

Rammer Cutter Crushers (RCC Series)

The new cutter crushers are suitable for carriers in the 3t to 130t operating weight range, and except for the 290kg RCC04R, feature a chamfered jaw design for greater penetration and a speed valve and desynchronized jaws for more precise placement and faster cycle times.

All models, except the RCC04R, have full hydraulic rotation. The larger models all feature forged and fully protected cylinder rods and heat-treated pins.

The RCC04R might lack the powered rotation of the larger models, but it too benefits from several advances. A patented pressure intensifier system, installed on both cylinders, allows the jaws to deliver optimum performance with the external hydraulic system operating at normal pressure. This enhances performance, delivering the crushing power of larger and heavier competitive models, and helps protect the operator

and maintenance personnel from exposure to high-pressure systems.

Integrated oil filters help protect the boosters from impurities in the hydraulic oil while a regeneration and cleaning oil distributor maintains pressure at the required level, avoiding pressure peaks as well as reducing maintenance costs.

Rammer Scrap Shears (RSS Series)

The Rammer scrap shear line comprises nine models suitable for carriers in the 2t to 60t operating weight range. They share the same hydraulic rotation, rotation protection, heat-treated pins and bushes, and weld-free cylinder rods found on the RCC range.

All the new models feature a speed valve for improved cycle times and a jaw design that allows material to fall away from the cutting area. A double guide



SION

helps ensure cutting jaw alignment for better cutting. A central pin adjustment system also helps prevent jaw deviation. This system reduces operating costs by minimizing the amount of material stuck between the jaws. Each unit features cutting blades that have four usable sides that can be reversed and tips can be replaced without welding.

Rammer Rotating Pulverizes (RPV Series)

The Rammer rotating pulverizers comprise four models for carriers in the 10t to 45t operating weight class. Like other Rammer demolition tools, the RPV range is manufactured from HB400 steel and features heat-treated pins and bushes.

Full hydraulic rotation enables precise alignment for faster cycle times. A speed valve system reduces cycle times and helps reduce stress on the hydraulic

components. The RPV jaws are designed to allow crushed material to escape from the crushing area and reducing clogging.

Cutting blades and wear parts can be changed on site without special tooling.

Rammer Grapples (RGP Series)

Rammer has complemented its demolition attachments with a 10 model line of grapples. These range in size from the 620kg RGP07R to the RGP38R which weighs 2.61t and are suitable for carriers in the 5t to 40t operating weight range.

The grapple range is suitable for demolition and material handling applications. Bolt-on cutting blades can be turned to extend their life before replacement and mechanical stoppers reduce stress upon the cylinders. All key service points can be accessed externally, minimizing

maintenance time and cost and maximizing uptime to further boost Grapple productivity.

Rammer Static Pulverizer (RSP Series)

Completing the line of new demolition tools and attachments is the range of static pulverizers, which consists of six models with operating weights from 150kg to 4.2t. These are suitable for carriers in the 1.5t to 45t operating weight class. These new models share all the features of the RPV range, aside from the hydraulic rotation.

"The new Rammer demolition tools have been designed to meet the specific and ever-changing needs of this demanding industry," said Rammer general manager Rafa Lopez. "We have listened to our customers and we have met their call for greater versatility, enhanced productivity, improved wear resistance and simplified maintenance with a range of demolition tools that are fit to wear the Rammer name."

In 2000 the market exploded and at the show World of Concrete suppliers of concrete floor grinding and polishing machines and tools flooded the show's outdoor area. At that stage it was obvious the market did not have room for all these players. It got overheated and a few years later just half of the players were still in business.

Enormous potential

To grind and polish old and new concrete floors is a market with enormous potential. But not all markets are ready for it. Sweden, which has been using the method since the early 1990s, is still not extensively using the technique.

Markets that have embraced grinding and polishing include the US, Australia and China. To be a player in this field, whether as a manufacturer, supplier or contractor endurance and financial muscle is needed. And to provide that the right people, correct method, machines and tools are needed.

Concrete floor grinding and polishing is a growing business all over the world. The US and Australia are dominant markets with many players. China is increasing fast but currently there are not many professional contractors. For manufacturers of machines and tools the situation is totally the opposite and China still has the largest number of OEM manufacturers.

Other markets in Asia, like Thailand, India and Vietnam, have a modestly growing grinding and polishing industry. A market that has picked up is the Middle East after years of recession. Europe is generally increasing with growing markets like Germany, Benelux, France, Scandinavia and the UK. Also in parts of Africa grinding and polishing is increasing with leading countries like South Africa. In South America, Brazil was emerging some years ago, but due to the economic situation in the country this business has stagnated.

What do the service providers look like?

In the Western world there are contractors that also offer concrete cutting and demolition and specialised flooring services. The picture is almost the same all over Europe and North America and Australia. There is a growing number of concrete cutting firms taking up concrete floor grinding and also polishing to some extent, as they already are on the sites performing concrete cutting and light demolition. But the entrepreneur sector growing fast is the specialised flooring companies that previously mainly performed epoxy flooring tasks. In Asia, Middle East, Africa and South America the specialized flooring firms are dominating but the services are also increasing from concrete cutters.



“A BIIING ISSUE”

One country where concrete floor grinding and polishing has not yet taken off is Japan. The majority of the large manufacturers are represented but there is very little activity from this market, but the potential is significant.

More professional branch association would help this industry to grow. It is only in the US where these associations are operating. There is not an international association and so far concrete floor grinding and polishing aspects are included in national and international concrete cutting and demolition associations.

Grinding and polishing of concrete floors has become increasingly popular around the world over the last 15 years. It all started with the manufacturer HTC Sweden in the middle of the 1990s and soon other manufacturers joined like Diamatic and King Concepts. This industry has now developed into a plethora of suppliers. PDi editor in chief Jan Hermansson reports.

What's new in the market?

Perhaps the biggest news in the past year is Husqvarna Construction Products' acquisition of HTC Sweden. This followed a few months' after the purchase of Pullman Ermator, the manufacturer of dust extraction equipment used in concrete floor grinding and polishing applications. Over the years Husqvarna has acquired a number of competitors, who have been absorbed into the Husqvarna brand, but with HTC and Pullman Ermator it appears they will continue as separate brands. Another thing we have seen over the last years is that strong US brands have been trying their luck on the European market and have been doing a good job to implement their products. Some examples are Superabrasive, National Flooring Equipment and Sase. Sase has been sold on the German market quite a while but now the company is also taking the step in to the Northern markets and is starting out with Sweden. The Swedish manufacturer and distributor Jernevik Maskin has started to sell the full range of Sase equipment.



Blastrac's new shot blaster

Earlier this year Blastrac launched its new portable, lightweight shot blasting system 1-8DM for small jobs. It runs on single-phase electrical power and has a manual travel speed and 222mm blast pattern. This small machine can be used as a complementary unit for larger jobs, and for the preparation of concrete prior to wood floor installations or applications, such as overlays, paint, or decorative coatings. It can accommodate close-up work next to walls and other vertical protrusions when side magnet seals are removed.

Shot pattern reducers are available in 100mm, 125mm and 150mm. The Blastrac 1-8DM can prepare, strip, clean and profile in one easy step. There is no rinsing or drying time and the profile provides a better surface for coating adhesion. At the Blastrac/Diamatic booth at World of Concrete this year, visitors were greeted with the new BDC 122 110V large bag dust collector with an H-class Hepa filter, and several revamped Diamatic propane grinders with Briggs and Stratton engines. Among them were the 26kW, 711mm BMG 735P, and the BG 300 edger with a pivoting head that hugs walls closer and more consistently than before.

www.blastrac.com



BW Manufacturing

The US manufacturer of concrete floor grinding equipment BW Manufacturing has introduced the D-1800, the latest in surface preparation technology. The D-1800 is the response to years of contractors' requests to solve the messy, time-consuming issue of dust removal from the machine. The hydraulic dump box has the ability to dump 250 litres of material in seconds.

Other features include the BH-18 Blasthead, which has the same feathered blast pattern found in the BH-16 Blasthead, but delivering increased production with a 50mm wider path. Replaceable inner liners increase housing life and cushioned swivel casters allow for easy manoeuvring over flat surfaces. Also, new seals, floater plates, and shot separator system allow for increased output and decreased shot consumption. Other chassis upgrades include a planetary gear drive for greater low-end torque and faster drive speeds. New controls and seating position give the operator a better view in front and behind machine attachments. A new tilted hood allows easier access for maintenance, as well as other internal advancements to decrease service intervals and increase production.

BW Manufacturing is located in Comstock Park just north of Grand Rapids in Michigan. The company was founded in 1996 and its goal has been to build high-quality, easily serviceable, long-lasting surface preparation equipment. To achieve this BW manufacture all of its equipment in one location at Comstock Park.

www.bwmanufacturing.com

DRS-FLOOR by Dr. Schulze

The German manufacturer Dr. Schulze has an ambition to offer its customers the complete flooring solution from a single source under the trademark of DRS-FLOOR. This consists of the following:

- non-stop customer service seven days a week for all technical and commercial questions about any type of flooring project. Engineers provide customers with suggestions for sequence of working, application of chemicals, recommend optimum method for achieving the required floor quality, and provide estimation of a project's self-costs.
- full range of chemicals for transformation of normal concrete to high-performance industrial or commercial floor.
- complete range of materials for repairing cracks, joints and other surface defects.
- heavy-duty machines for all types of floor processing.
- all possible diamond tools for any application.
- wide range of dust collectors and separators.



Innovative DBF-330 two in one with cutting and scarifying functions.

Dr. Schulze launched several new products in 2017 including the multi-blade cutter / scarifier DBF-330 two in one. This combines two functions in the same machine. It can be used with a normal 300mm diameter milling drum equipped with carbide tools, or up to 40 diamond blades of 270mm diameter.

Depending on the floor material the machine equipped with diamond blades can cut to a depth of approximately 30mm at the maximum cutting width of 333mm. The most efficient way of material removal can be achieved by subsequent cutting of the concrete surface with diamond blades, placed between 6mm to 10 mm apart, followed by scarifying with a carbide drum in the cross direction. This ensures removing 15mm to 25 mm of concrete in one working sequence, which can be repeated several times to achieve nearly any thickness of material removal.

The DBF-330 is equipped with an electro-hydraulic feed drive with continuous speed adjustment, removable weights and LED light for comfortable operation.

Dr. Schulze also added the new grinding machine DBS-300 Vario, for processing of corners along walls and of smaller areas with limited access. The main feature of this machine is its adjustable speed from 0 to 1200 revs/min, which enables application of PCD milling, metal bond grinding and resin bonded polishing tools. Water tank and cardan-type fixation of the tool holder makes the DBF-300 one of the most universal single head grinders available.

The DBS-300 Vario is equipped with 4kW 230V engine, frequency convertor and electric adjustment of the machine's height. By this adjustment the grinding angle can be changed and also possible to position the machine where the grinding head pushes against the wall by itself, enabling precise operation.

For the processing of joints and cracks Dr. Schulze offers the multi-purpose chaser DSC-200. Due to its highest flexibility and wide range of accessories it is suitable for all repairing and construction jobs on old and new concrete floors. All work with the machine can be done completely dry and without any dust pollution due to opposite direction of cutting tool rotation and effective dust collection system. The machine is available with various types of the main drive and can be used indoors and outdoors.

With the aim of further reduction of operation costs for contractors using Dr. Schulze machines, the more efficient, powerful and easy-to-operate grinding machines above 800mm working width are offered by the company. These are the triple head planetary machine DBS-820-3H and quadruple head planetary

DBS-820-4H, both available in manual or remotely controlled versions.

In all its multi-head grinders Dr. Schulze uses sealed oil-filled full gear transmission. Dr. Schulze said that no gearboxes of any of the machines sold in last four years have been opened for repair or maintenance. Besides the annual oil change, there is nothing else to be done with these gearboxes.

In 2016/2017 Dr. Schulze's flooring solutions have received their own website WWW.DRS-FLOOR.COM, YouTube channel and Facebook public.

www.dr-schulze.de

General Equipment

Another US manufacturer, General Equipment has a new surface grinder, SG12/E designed for small surface preparation projects. SG12/E single-head surface grinder offers high performance, durability and ease-of-use, making it ideal for professional contractors and do-it-yourself homeowners.

Powered by a totally enclosed, fan-cooled 1.1kW electric motor, the SG12/E features a single rotating disc with a 305mm working width. Offering a top disc rotation speed of 250revs/min, applications include grinding concrete surfaces, removing mastics, adhesives, epoxies and urethanes, removing rubber carpet backing and industrial residues, and polishing terrazzo and marble floor surfaces.

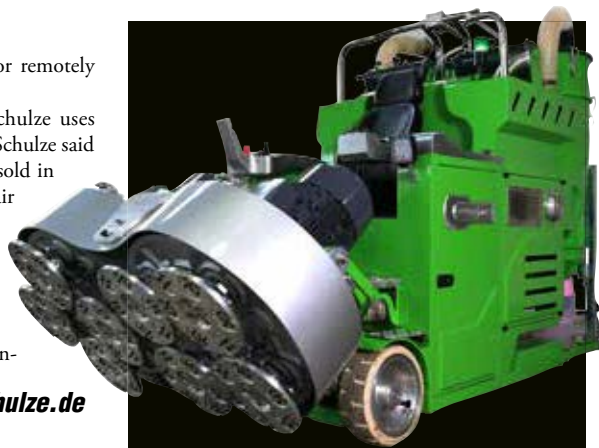
Built for portability, the SG12/E includes a folding adjustable handle that makes it easier to transport in small vehicles. The compact frame and wheel position allow for easy manoeuvring up and down stairwells.

The SG12/E's frame includes an integral bail design for loading and unloading with a forklift. Extra capacity, self-aligning ball bearings and a heavy-duty V-belt reduction drive system are standard. A removable safety and dust shield surrounding the rotating disc helps contain airborne dust and limits material contamination, while also protecting the machine's internal components.

For maximum safety, the SG12/E includes the Quik-Stop deadman motor switch that immediately stops the grinder's motor in the event the operator loses control of the machine. An 11.3m long extension cord is standard, complete with a GFI for added safety.

The SG12/E accommodates the same wide variety of attachments available for General Equipment's larger, dual-head SG24 Series surface grinders. This includes grinding stones, scarifiers, wire brushes, the SCRAPE-R-TACH Coatings Removal System and the DIAM-A-TACH Diamond Segment Grinding System.

www.generalequip.com



Dr. Schulze GmbH proudly announces DBS-1520-8H

Dr. Schulze's brand new DBS-1520-8H is the largest gear driven ride-on grinding machine in the world and suitable for large-scale construction projects.

- As all other Dr. Schulze's multi-head grinders the DBS-1520-8H disclaims the conventional belt drive by completely sealed and oil-filled full gear transmission in aluminium casted and CNC processed housing, which is unique in the market. This ensures smoother running, higher load capacity as well as less noise emission and nearly no maintenance demand.
- Equipped with storage battery for easy loading and transportation.
- Two Siemens motors with total 30 kW power enable unachieved performance and make the grinding machine incredibly effective for larger projects.
- Integrated suction system with full automatic filter cleaning and total air flow of 2280 m³/hour ensure completely dust free and non-interrupted floor processing with any kind of diamond tools.
- The grinding head with hydraulic lifting system for fast replacement of diamond tools and easier transportation.
- 24 or 48 diamond tools can be mounted on the 8 grinding heads of the machine.
- DBS-1520-8H can work with high-performance PCD-tools for coating removal, with metal bond tools for effective grinding and resin pads for all possible polishing operations.

DBS-1520-8H

Power supply:	400 Volt; 64 A
Grinding motors:	2x Siemens 15 kW
Frequency inverter:	Schneider Electric 30 kW
Drive motor:	DC 24 Volt / 800 W
Hydraulic:	24 Volt / 2.2 kW
Battery:	100 Ah / 12 Volt
Working width:	1.520 mm
RPM gear box:	0-300 min-1
RPM satellites:	0-1.200 min-1
Grinding tools:	8 heads x 6 tools
Weight:	1.985 kg
Length:	3.100 mm
Width:	1.520 mm
Height:	2.000mm

DBS-300 Vario - universal grinding and polishing machine for corner processing.





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Klindex

The Italian manufacturer of concrete floor grinding and polishing machines Klindex has boosted production and marketing during the year. A number of new machines have been launched and the manufacturer is pushing hard in the American market through their new US subsidiary.

Klindex has recently launched Max Orbit for use on any surface. It can reach narrow spaces, flush with walls, and allow operators to work with the handle at any inclination. The roto-orbital movement makes crystallization fast and easy. The double rotational, orbital movement drastically reduces machine attrition on surfaces to be crystallised, making the job light and easy for inexperienced operators. The Maxi Orbit movement causes thousands of vortexes on the tool drawing the dirt upwards and provide unequalled cleaning on any surface.

Another new Klindex product is the Bella floor-polishing machine. It is available with motors from 1.3kW to 2.9kW and is ideal for cleaning, treatment, grinding and polishing of any surface. Bella features all the interchangeable accessories to overcome all challenges that occur at construction sites.

Klindex also recently launched the Expander 530 propane powered grinding and polishing machine, with patented geared mono-rotating planetary system. The Expander 530 allows independence from generators or mains power. It combines its weight with a working section of 530mm, providing high productivity rates and constant performance. Main advantages are no performance drop and loss of time caused by the power grid; mono-rotating planetary; free from the hassle and costs of extension cords; no need of a generator; accurate and reliable adjustable planetary speed; low operating vibrations; light and easy to manoeuvre; ideal for indoor and outdoor applications; dry or wet grinding and standard 46litre water tank.

www.klindex-america.com
www.klindex.it

National Flooring Equipment

The US surface preparation company National Flooring Equipment launched the Helix planetary grinder earlier this year. It combines ease of transport, manoeuvrability and edge-grinding capabilities in a machine for small commercial or residential jobs. The Helix is a 406mm



planetary grinder that creates the ideal profile for new coatings. The machine features an edge grinder, dual speed operation, an adjustable handle and a floating dust skirt.

The Helix's handle offers operators a range of options. Users can detach the handle from the base, fold it into multiple positions and adjust its height, making it easy to store and transport. The Helix offers an LED light incorporated into the handle so that operators can assess the scratch pattern and ensure maximum efficiency.

"We designed the machine in response to customer feedback to make sure it is engineered specifically for end users," said NFE president Derek Olson. "The design of the Helix means it is ideal for manoeuvring and transporting during small residential or light commercial jobs.

One key benefit of this machine is its edge-grinding capabilities. Whereas the majority of grinders are only able to reach within 25mm to 50mm of a wall, the Helix has an edge grinding portion that means it can reach within 12mm of the wall on either side of the grinding head. This dramatically reduces labour intensive hand grinding needed to complete the job."

Also new is the GP700 concrete grinder and polisher. This is ideal for preparing concrete floors for topical coatings, overlays and adhesive, while also providing the variety of tooling and power to deliver a polished floor. There is also a propane version of this machine.

Another new product is the GP3000 concrete grinder and polisher. The 711mm cleaning path and increased grinding head pressure make this an ideal machine for commercial and industrial projects.

www.nationalequipment.com

Schwamborn Gerätebau

German manufacturer Schwamborn is able to compare different methods of shot blasting, scarifying, bush hammering and grinding for preparing floor surfaces. The aim is to enlarge the surface to maximize the adhesion of the flooring to be applied. Racks, cavities and parts of flooring that have lifted indicate poor preparation of flooring surfaces. The cause is often an incorrectly prepared surface. For industrial areas, the quality of



the surface preparation is crucial to the durability, cost-effectiveness and sustained use.

The common methods for surface preparation are scarifying, shot blasting, bush hammering and grinding. Depending on surface characteristics and later usage, different methods may need to be combined to improve results. Despite diverse practical tests, there is no general rule for preparing industrial flooring surfaces. The surfaces on building sites as well as the requirements of the flooring to be laid are often too different. However, it is always important to be aware of the effects of the types and methods of preparation on the tensile properties of surfaces as these have a decisive influence on the quality and durability of industrial flooring.

Bush hammering

The conically shaped tips of bush hammering tools break up the surface without the impact forces affecting the surface and or permanently damaging the structure. With this method, the craftsman obtains a degree of surface roughness similar to that achieved with shot blasting.



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- ✓ **INCREDIBLY HIGH PRODUCTIVITY - OVER 10,000 SF PER HOUR PER GRIT**





Advantages are no blasting lines, relatively coarse debris generated, which is easier to remove, and the debris does not close any pores and less work involved in preparing edges.

Disadvantages are that tool costs are relatively high if surfaces are large and the area coverage is lower than with shot blasting

Scarifying

A basic distinction is made between chisel scarifiers and lamella scarifiers. Loose lamellas on a shaft are passed over the surface as they rotate, enabling the tips to act on the surface. This also abrades the top surface but compared to chisel scarifiers gives much finer results. Whereas the chisel scarifier makes deep cuts into the surface and is suitable for roughly removing larger irregularities or damaged surfaces, a lamella scarifier gives much more even results, but does not cut as deeply as a chisel scarifier. Scarifying is a good way of removing thicker layers of damaged screed or concrete floors. Uneven areas can be removed and gradients abraded exactly as required.

Main advantage is that scarifying evens out large irregularities efficiently. Disadvantages are surface damage, particularly in non-visible areas. Scarifying may result in large amounts of coarse, loose concrete chips or pebble debris being left behind.

Shot blasting

With this method, steel balls are impacted onto the floor by a rotor, collected together with the abraded

material and then reused. Shot blasting is mainly utilized to remove cement slurries from newly concreted areas. However, it is also used to clean or prepare surfaces before applying floor coverings, coatings, resins or tiles. Shot blasting can be used to remove dirt, coatings, as well as paint and rubber residues.

Main advantages are high speed and that the method is relatively cheap. Disadvantages are blasting lines, increased material consumption for subsequent coating processes and surface irregularities are not removed

Grinding

Grinding is a horizontal movement on the surface using diamond tools. The diamond grit is mainly embedded



in the metal of the tool and removes material by cutting into the surface. Using a grinding machine can significantly cut the costs of levelling surfaces with filler and recoating. When used in conjunction with high-performance industrial dust collectors, the amount of dust created by the process can be significantly reduced.

The main advantages are low material consumption for filling processes, no blasting or milling lines. Since the surface is treated horizontally, all the abraded debris is removed. There is a low noise level compared to other preparation methods. Main disadvantage is higher tool costs.

The new Schwamborn DSM 250

The new Schwamborn DSM 250 has a swivelling grinding head that allows three working positions of left, right and centre that automatically adapts to the wall contour during edge grinding, even in corners.

The DSM 250 allows easy and uncomplicated grinding of concrete, screed and stone floors for the removal of glue and filler or the levelling of uneven floors. Schwamborn developed a diamond system with accessories for all floor types and floor status with the ETX-Easy Tool Exchange for subsurface preparation, grinding or polishing.

As all grinding machines of Schwamborn the DSM 250 uses a diamond floating device for durability, a maximum productivity and low vibrations. The advantages of the Schwamborn DSM 250 can be obtained by scanning the QR code.

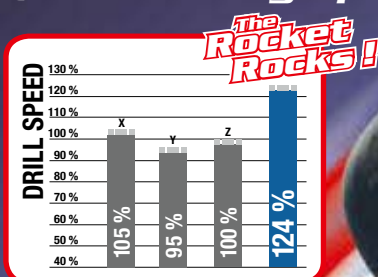
Schwamborn also launched the remotely controlled DSM 800RC grinder about a year ago. This is for large surfaces and offers considerably enhanced operator comfort and a high level of productivity. The ETX Duo tool holder ensures the surface quality is uniformly high, tool changes are more rapid and machine performance is achieved. "We aim to offer a perfect solution for practically every detailed task in floor treatment and care, said Schwamborn managing director Eckart Schwamborn. The spectrum of solutions range from polishing concrete surfaces and the removal of coatings with special tools, to solutions that make machines faster, longer lasting, more efficient or simply easier to use.

www.schwamborn.com

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Superabrasive

Superabrasive, the manufacturer of Lavina, introduced at World of Concrete 2017 new propane-powered



grinders, including a 813mm, six-head propane grinder L32G-X and a 965mm remotely controlled L38GR-X. Both models have chain-driven planetary drive, Kawasaki FX921V engines, integrated weights and adjustable grinding pressure.

Superabrasive has also introduced Trowel Shine, a concrete polishing system for power trowels. The system features rotating tool holder heads with flexible foam for even tool wear and perfect balance. The Trowel Shine holders, offered in 270mm and 356mm sizes, are mounted to power trowel pans, and have Velcro attachment for quick and easy tool changes with Superabrasive's diamond pads.

www.superabrasive.us

Xtreme Polishing Systems

Xtreme Polishing Systems has over 25 years of service

in the concrete surface preparation and concrete polishing industry manufacturing and distributing concrete polishing machines, equipment and tooling. XPS specializes in diamond polishing pads, floor grinding/polishing machines, concrete densifiers, epoxy floor coatings, concrete sealers, dyes, stains and a wide range of tools and chemicals.

The company is known for amazing offers along with the purchase of a Concrete Genie or Ultra Genie. The phone order and on line services are available 24h/day. Their website also provides a detailed catalogue on their various products.

The company aims to assist customers at every stage of construction helping build quality floors for life and offers a personal one-on-one training programme on concrete polishing lasting almost a week. They have a devoted YouTube Channel covering almost everything related to polishing concrete floors.

www.xtremepolishingsystems.com





A good day at work.

Everyone wants to have a good day at work. The first step to achieve this is to work with machines that last and that meets or exceeds the expectations. Day after day, year after year. It is also important that the machines in question are kind to your body, so you feel good even after the workday is over.

We manufacture and supply dust extractors, air cleaners and wet vacs of the highest quality. Our machines are designed with the users' well-being at the top of the list, protecting both your back and your lungs. The machines are, for example, ergonomically designed and lightweight. Dust extractors and air cleaners are equipped with H13-filter that takes care of the smallest and most dangerous particles. Our wet vacs are equipped with powerful evacuation pumps so you can pump away the liquid which is taken up.

Do you also want a better day at work? We have the solutions.

pullman-ermator.se





US Saws TC-7 provide multiple services with one machine

The company US Saws has taken steps to diversify certain products that allow a customer to provide multiple services with one machine. The US Saws TC-7, stand up edge grinder can be fitted with a variable speed controller to allow the standard Metabo 24-230 power unit to become a slower rotating machine so use of resin polishing pads can be used. For full speed, just unplug the speed controller and you have a 6,600 rpm grinder that can use a diamond cup wheel or a PCD (polycrystalline diamond) to prepare concrete or remove just about any coating. Being able to do this work standing up also has its advantages as it allows the operator to work in a more comfortable position therefore producing a more productive worker.

David Glynn, Vice President at US Saws, Inc thinks that the concrete surface preparation industry has undergone a major transformation over the past few decades. "I started a surface preparation contracting company in 2001 and we primarily specialized in shotblasting of concrete surfaces to prepare them for a new epoxy coating or urethane deck coating. Shotblasting was and in many cases still is the preferred methods for adding a specified surface profile to concrete that will satisfy the coating manufacturers warranty requirements. This practiced has changed with the advancement of rotary and planetary surface grinding and polishing equipment and the tooling that goes along with it. Now a contractor can use a floor grinder to remove old coatings or other surface contaminants, grind concrete and leave a desired surface profile based on what tooling is used. This same equipment can also be used to polish concrete with different tooling. This opens up a whole new market for a contractor that owns this equipment. Many floor coating contractors have added concrete polishing to their offering and for good reason. If they already own the equipment that can provide the service than why not?", says David Glynn.

www.ussaws.com



New Spray Upgrade on the Grand Finale Coatings Applicator

Aztec is a family owned company in Philadelphia in the state of Pennsylvania, USA. Aztec has been in business for some 20 years developing and manufacturing equipment for concrete floor grinding and polishing. Aztec is now presenting their latest innovation: the new Spray Grind Finale, a 2-in-1 coatings applicator that uses a microfiber pad to apply floor finish, concrete densifiers, hardeners and sealers quickly and uniformly. The new hand spray upgrade features a flexible hose to access smaller, hard to reach areas.

The Grand Finale, now available in both 24" (61 cm) or 36" (92 cm) pad widths, provides an easy, high-speed way to lay down a smooth, uniform coat of chemicals at up to 35,000 sqft/hr (3252 m²/hour). At 8x faster than the traditional mop and bucket method, the Grand Finale eliminates baseboard splash and puddling, all while reducing chemical usage by 30% and eliminating strenuous labor and injury.

A battery-powered pump precisely controls the flow rate to a microfiber or looped pad. Using a magnetic sensor and pressure controlled pump, the chemicals flow from the bucket through the hand spray nozzle or machine and onto the floor, providing NO streaking or edge bleeding.

The Grand Finale is "Step Four" of the Aztec WorkSmart Sidewinder Stripping System, which includes the Liquidator (strip solution applicator), the Sidewinder (propane floor stripper), and the Guzzler (slurry retriever).

All of Aztec's propane machines and engines are made in USA proudly are certified by EPA, CARB, LEED and GS-42 where applicable.

www.aztecproducts.com



Did Duratig pass the test?

The RPM Group, a US-based network of diamond polishing contractors, has put Duratig to the test. Over a period of several months, the Duratig grinder has been tested on multiple job sites against other grinding machines. The results were stunning. Besides the much easier handling of the Duratig, the increased productivity is assumed to equal labour cost savings of 10%.

The field test was addressing the HTC claims about the Duratig machines and the new platform it's built on. The overall claims for Duratig are 54% increased productivity, 100% less dust residue on floor, 74% less vibrations and 1000h service intervals.

Two teams conducted the field tests, one team worked with the ordinary machines and methods that they were used to, while the other ran two new remotely controlled Duratig RX8 machines. The aim was to clarify if there was a difference in performance between the two.

The results

After over 150 days the results showed the Duratig machines performed above expectations in efficiency. According to RPM owner Dave Stratton switching their 52 machines to Duratigs would save him labour up to 10% due to being able to cut more each day. Also the feedback from the crew included positive response on the ergonomic features like the easily handled weights. The HMI display did also make a big difference with its live information of performance, walk and grinding head speed.

"With the Duratig platform you get some serious data, that's where big efficiency comes from, a remotely controlled machine that gives you feedback, that you can take and use as the recipe that works for this cut, and confidently go through 5000m² successfully," said RPM president Tim Kennady.



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New tools and accessories

HTC launches Superpreparation tools

HTC has launched the HTC Superprep series of tools for floor preparation. The tools have been developed for the coarsest floor grinding jobs, when thick coatings are to be removed or floors levelled. Special focus has been put on faster work using tools with exceptionally high grinding capacity. At the same time, improved service life for the tools is also assured. In common for all 24 tools are the new green colour and the easy method for making the right choice. The optimum tool is easily identified using a simple visual guide, which is printed both on the tool carton and included separately in the boxes. All tools are best used with HTC's floor grinders and dust extractors for maximum synergy.

www.htc-floorsystems.com



Klindex new tools Flash Diamond

Klindex has released the new tool series Klindex Flash Diamond a three step polishing system for marble, terrazzo and concrete surfaces. The system, which works wet and dry, reduces the polishing work down to three steps for polishing all kinds of pavements and is ideal for marble terrazzo and concrete surfaces.

www.klindex.it

HTC launches new dust extractor

The new HTC D60 dust extractor has been designed for floor grinding and especially for use with HTC Duratiq grinders. Functions, such as Duratiq remote connection, automatic filter cleaning and integrated pre-separation, produce increased productivity and grinding capacity and ensures continuous operation and consistent and



safe dust extraction. Other benefits are compact dimensions, smart features for ergonomic handling and high safety standard with Hepa H13 filters.

The HTC D60 is recommended for floor grinders with a grinding width of 600mm to 700mm. It is equipped with a digital control panel for monitoring the extractor. An LCD display provides information about the critical factors for optimum dust extraction, such as airflow, under-pressure and filter status.

Ease of handling and safety have also received considerable attention. The HTC D60 is compact and is 680mm wide and 1.4m high in the transport position. This allows it to be transported in most work vehicles and easily passes through standard large door openings. Extra large wheels with brakes allow moving over thresholds and other obstacles. The machine is equipped with PTFE coating conical filters and Hepa H13 filter with a quick lock system.

www.htc-floorsystems.com

National Flooring Equipment's new dust collector

National Flooring Equipment launched its DL6000 dust collector earlier in the year. The DL6000 is designed for surface preparation that requires high airflow, Hepa, dust-free work environments. It is a 18m³/min machine, for large surface preparation jobs.

www.nationalequipment.com



Scanmaskin launches Luteus and new dust collectors

Scanmaskin has developed a new hybrid tool Luteus for dry polishing of different floors and coatings, such as concrete and plaster products and terrazzo floors. Luteus is easy to apply to Scanmaskin machines, and has good durability and flexibility. Luteus is available in sizes 180mm, 210mm and 240mm and grit from 50 to 3000.

Scanmaskin has also recently introduced two Industrial dust collectors, the Scandust 8000 and ScanDust 3600, both equipped with Hepa filters. A polyester-grade coarse filter package provides a high degree of material separation. In addition, the design and filter area of these new models are designed to provide the most suction capacity.

Both models take advantage of the Longopac bagging system, which makes managing dust easy and efficient.

www.scanmaskin.com

New dust extractors from Superabrasive

At WOC 2017 Superabrasive launched a new Lavina-X series dust extractors, including one propane and three electric models to suit any grinding project. All dust extractors are equipped with Hepa filters, and Longopac bagging system, as well as an automatic Jet Pulse filter cleaning.

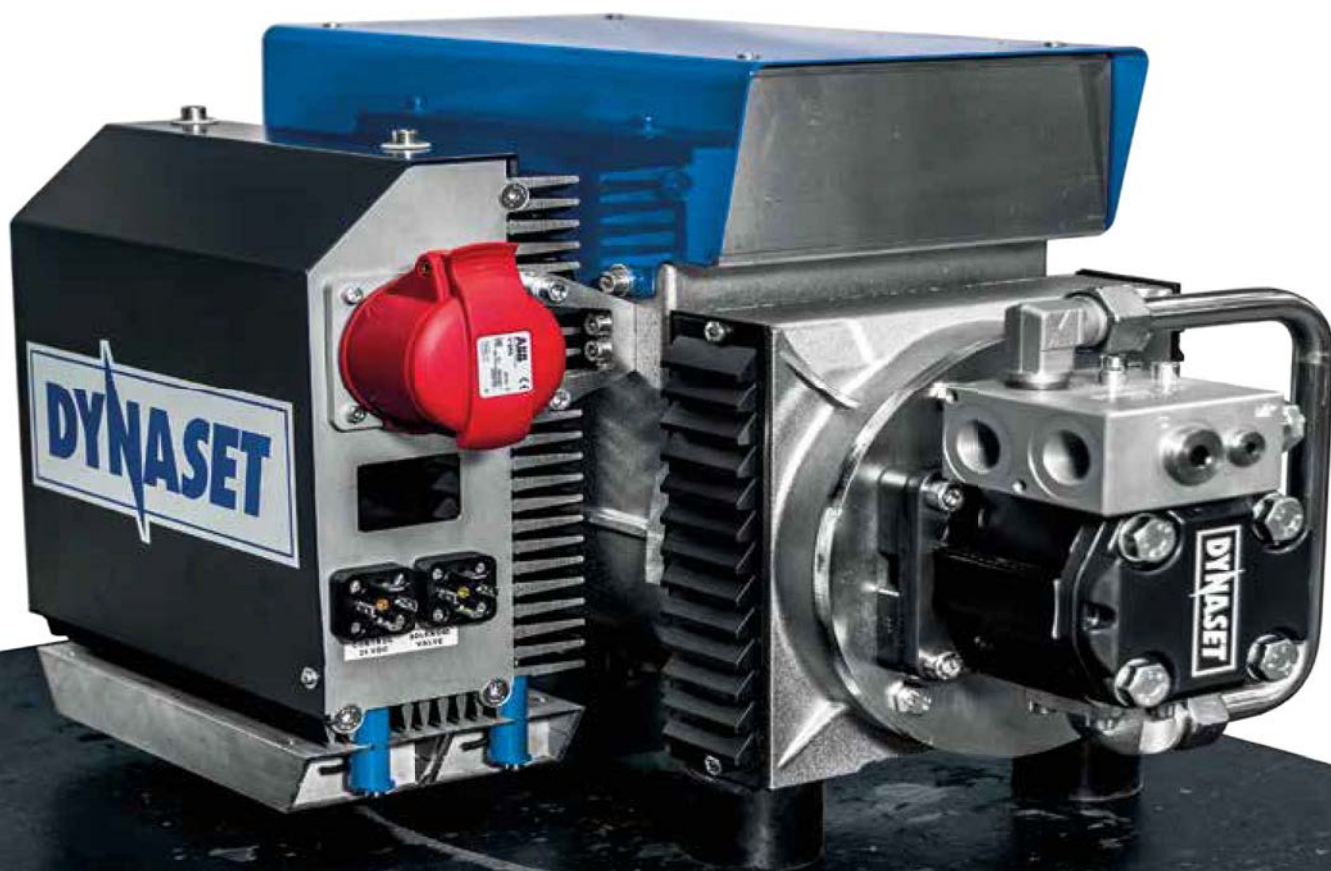
www.superabrasive.us



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MB CRUSHER

in the Caribbean

On the small Caribbean island of Nevis, an MB Crusher crusher bucket and screening bucket are at work on a redevelopment project with a special focus on respect for nature and history. The scheme involves the refurbishing of the old colonial buildings, such as the distillery and church and the construction of new buildings and the rehabilitation of the natural landscape.

Installed on a Caterpillar 320L excavator, the MB-S18 screening bucket is used to separate soil from leaves and brushwood. The processed material is then re-used on the spot for the rehabilitation of the green areas. The works also include the cleaning of the surrounding forest, with the salvaging of trees and restoration of the natural elements.

The BF90.3 crusher bucket is used for crushing the local Nevis stone, a type of very hard granite. After crushing, the rock is re-used to fill the excavated areas created for the construction of the buildings, and to make the foundations for the new local road network.



The use of MB Crusher equipment proves to be an economic and ecological advantage. It leads to a reduction in the movement of vehicles, the use of fuel and harmful emissions, while protecting the environment.



Refurbishment of **LIGHTHOUSE TOWER**



The UK diamond drilling and sawing contractor D-Drill has played a successful part in the refurbishment of the NAB Tower lighthouse 11km offshore in the Solent for main contractor BAM Nuttall.

Two D-Drill operatives Dean Gough and Liam Berry used two drill rigs and two petrol powered generators, shipped across from Gosport, to drill 46 holes in a single day's operation.

The holes included four 200mm diameter, 400mm deep and six 107mm diameter holes to form an opening 250mm x 210mm. A further 36 fixing holes of 14mm diameter were rotary percussive drilled.

"The complication here was not the holes we had to drill but the access to the location and the fact that we had to get everything over there and off again in one day," said D-Drill branch manager John Barber. "We

had to follow very strict health and safety procedures from wearing life jackets on the journey across to twice postponing the job because of the conditions."

"It's a historic tower that began life just after World War I and was then also used in World War II, providing defence for the Solent. Our team always looks forward to a challenge and this job very much provided that and was yet another example of how we work on a whole range of conditions and environments and ensure we get the job done."


"The NAB Tower was a very challenging project taking two-and-a-half years to complete due to the weather dictating our daily commute," said BAM Nuttall spokesman Jonathon Pitt. "The last job was to fit ventilation ducts through the concrete wall and upper deck."



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FLOOR SAWS ARE A CONCRETE CUTTER'S BEST FRIEND

Floor sawing jobs are bread and butter for professional concrete cutters. Well aware of that fact, manufacturers work hard to meet their needs with ever more compact and lightweight yet powerful machines. PDi's Andrei Bushmarin reports on the latest products in the floor sawing sector.

Alba releases CJP500 Compact

ALBA - the Spanish manufacturer of light construction equipment based in Bilbao - is currently fine-tuning a



new floor sawing system called "CJP500 Compact". Designed to carry diamond blades up to 500mm in diameter, it boasts a host of new features that make its operation simple and smooth. The cutting depth is controlled by a wheel with a depth indicator screen, while a 30l plastic water tank, with a refrigeration system, routes cooling water to the saw head.

The floor saw is powered by a Honda 13CV motor and is equipped with a number of special features, including an emergency stop button and a stop position brake pedal. The machine's compact design with a foldable handlebar allows transportation in any commercially van. The machine is now in prototype stage, with the launch projected for early 2018.

www.alba.es

Cedima launches new model with bevel cutting option

Following discussions with users at BeBoSa, Germany-



based Cedima has launched a new model featuring a bevel cutting device. Designed for dry applications, the CF-2020 T allows cutting wall and curb flush joints with up to 7° bevel-cut without using cooling water. Dust generated during operation is collected by a powerful dust extraction system. Boasting a maximum cutting depth of 110mm, the CF-2020 T permits cutting at 7° angle to the depth of 88mm. An electro-hydraulic system with a cutting depth indicator controls the lowering and lifting of the saw blade. The adjustable handles and a vibration-decoupled kick ensure comfortable operation.

www.cedima.com

Norton Clipper adds two models

A company within the Saint Gobain Group, Norton Clipper, has added two electric models to its floor saw range. Featuring a heavy-duty frame and a handlebar equipped with vibration absorbers, the CS451 E and CS451 ET offer a vibration level 40% lower than the previous C99 model. The adjustable handle height for all cutting depths ensures an ergonomic working position, while the CS451 ET model can be fitted with a dust extraction hose plug to reduce the risk of dust inhalation.

The continuous depth control with hand wheel and gauge allows for quick, easy and accurate setting. The maximum cut depth of the CS 451 E model is 170mm, whereas for the CS451 ET it is 125mm. There is the option of twin blade mounting and connecting a water hose to allow for wet cutting operations on the CS451 El. These models are now available in Europe.

www.nortonabrasives.com



A compact walk-behind from US Saws

The compact and lightweight air-powered utility saw FSB-150 from North American cutting and surface preparation company US Saws, is designed for small-scale projects where contractors use a compressor to run jackhammers or other pneumatic tools.

With a 175mm cutting depth, the walk-behind saw is reported to be a success with street crews doing pothole and spot repairs and interior demolition work. The FSB-150 saw is a perfect choice when contractors face tasks like moving water lines, drains and floor chases where petrol-powered tools are banned. Dust is controlled through a water feed, with a water tank kit available as an option.

www.ussaws.com

CASE STUDIES



Kern-Deudiam extends electric-powered range

The German company Kern Deudiam used the show BeBoSa to introduce two new electric models powered by a 7.5kW motor. Accommodating a diamond blade of up to 700mm in diameter, the smaller KDF700-7.5E provides a cutting depth of 280mm. Its bigger brother KDF800-7.5E has a cutting depth of 330mm when working with a 800mm blade. The new machines' compact design of 620mm in width and weight of 135kg without a blade guard, and the option of using the diamond blade on either side of the cutters, contribute to the flexibility of operation.

www.kern-deudiam.de

Merit to debut a Tier 4 model at World of Concrete

Merit Engineering and Equipment Company will debut the M600SS-56HP-D floor saw at the World of Concrete in January 2018. It is the company's first Tier 4 model in a growing line of diesel floor saws. It is compliant with EPA and California Air Resources Board emission standards and boasts a sleek, compact design and fuel efficiency.

"Unlike other Tier 4 engines that use DPf filters and consume more fuel, our model uses the DOC filter, which offers no fuel waste and provides low or no maintenance to the emissions components," said Merit chief engineer Juan Vielma.

Merit Engineering and Equipment Company specialises in designing and manufacturing saws for professional concrete cutters. Each saw is handcrafted from high-quality materials that are machined and assembled in the USA.

www.meritsaw.com



Rokla rockwheel makes trenching a breeze

A G5 rockwheel from German manufacturer Rokla GmbH was employed on a trenching project in South Australia by Grant Nykiel who operates an earth-moving and excavation business in Eyre Peninsula. The company provides services for septic, electricity and water on rural properties, as well as preparation for house foundations and general excavation. "The terrain in which we operate consists of limestone rock, which presents challenges when digging 400mm trenches. We had been using a rock hammer attached to our 5t excavator, however the time needed to remove broken rock from the trenches and relocate off-site was costing us valuable time and resources," said Nykiel.

The solution was found in the form of a G5 rockwheel supplied by Rokla's Australian distributor Semco. The contractor was able to quickly cut through the limestone and, in the process, create the correct grade of aggregate needed for backfill. The limestone spoil can be compacted easily and safely for the installation of plastic pipes.

Previously, to protect plastic pipes, the contractor had to remove and relocate rock fragments, which was a very time-consuming and costly exercise. Using the G5 rockwheel saved the company a great deal of time and money.

"The Rokla twin header range provides efficient rock removal and profiling solutions including the smallest twin header rock grinder that can run on an 1.5t hydraulic excavator through to the powerful G125 model with a maximum output of 440 kW," said Semco representative Graham Murphy.

"The design and power components of the low-vibration rockwheel cutting units are positioned in a way to ensure that the tungsten carbide-tipped picks create rock chips rapidly and with reduced bounce. And the cutting heads rotate at a low speed yet with massive torque that can handle up to 110Mpa compressive strength materials and ensures a clean profile."

www.rockwheel.com

Lissmac's Unicut 600 shines on an industrial hall renovation project

Lissmac's floor cutter Unicut 600 was used by specialist contractor Friedrich W. Petersen on the renovation of a 2,700m² industrial hall in Germany. The Seedorf-based company was faced with the task of separating a fire protection wall from the rest of the concrete surface and the heavily reinforced concrete foundation with a total depth of 800mm. A grand total of 192m of cuts had to be made in the foundation.

Given the job's magnitude, the contractor opted for the Unicut 600, one of the most powerful machines in Lissmac's range. Driven by a Deutz 101kW turbo diesel with an integrated intercooler, it features an elec-

tronically adjustable hydraulic drive on the saw blade to ensure maximum cutting force and optimum speed for the required saw blade diameter. The adjustable speed varies from 600revs/min to 2,800revs/min.

The electro hydraulic steering system optimises the hydraulic circuit and increases performance of the blade. The blade's hydraulic control lifting and lowering is infinitely variable. The fine-tuned feed control ensures highly precise cutting. Another advantage of the machine's design is the adjustable seat making it possible to work near walls. Thanks to the combination of the high-performance floor cutter and Lissmac diamond tools, the project was completed within 10 working days to the satisfaction of the specifier.

www.lissmac.com



Husqvarna saws help a Chicago contractor meet the tight deadline

A large stretch of the I-90 highway, running from Chicago to Rockford, is currently undergoing a major renovation entailing the removal of lanes to be replaced by wider concrete ones. Chicago Cut Concrete Cutting, based in Schaumburg, Illinois, is responsible for slab sawing of the old concrete lanes, and subsequent green sawing of the new concrete to control shrinkage cracking. Over 24km of the roadway, including five bridges, needed to be demolished and green-cut.

For the removal of the old concrete lanes, Chicago Cut Concrete Cutting chose Husqvarna's FS 8400 D, FS 6600 D and the new Tier 4 compliant FS 7000 D floor saws. These saws are known for high production rates and ergonomics that help operators cut 280mm deep in rebar-loaded concrete. For green sawing, Husqvarna Soff-Cut 5000 Ultra Early Entry™ saws were used and enabled the teams to stay on or ahead of schedule. To meet the Illinois State Toll Highway Authority (ISTHA) deadlines, the company had to work around the clock. The floor saws and Soff-Cut saws were a major factor in helping the contractor complete the job on time.

www.husqvarna.com





DITCH WITCH partners with Utilicor Technologies

Ditch Witch has announced a partnership with Utilicor Technologies aiming to bring the benefits of advanced keyhole technology and reinstatement to contractors, municipalities and utilities globally.

“Our partnership with coring technology leader, Utilicor, gives our organization a strong point of entry into the coring market,” said Ditch Witch vice president of product strategy Randy Rupp. “The new MTC100 coring attachment will complement our portfolio of mini skid steers and vacuum excavation equipment for work under paved surfaces, and it gives cities and utilities a quick, money-saving advantage.”

“Utilicor is pleased to partner with Ditch Witch, allowing us to expand the reach of our coring and reinstatement technology through their dealer network,” said Utilicor Technologies president and chief executive Marshall Pollock. “Both of our companies have spent

years developing customer confidence in our brands, and we’re fully committed to providing exceptional support and service to our customers. This agreement reaffirms that commitment.”

Coring techniques offer significant cost and time savings. Keyhole coring technologies are approximately 50% less costly than traditional excavation repairs and disposal removal. “It comes down to using smaller, more precise tools and a more localized approach,” said Rupp. “The result is less disruption and faster repair.”

In addition to the MTC100 coring attachment, Utilicor provides the market-leading reinstatement material Utilibond. Capable of supporting up to 22t in just 30min, this pavement-bonding compound, results in a permanent pavement repair that reduces public inconvenience, requires no additional paving materials and is field-proven to be effective for more than 10 years.



GENESIS introduces the cyclone rock and concrete grinder

Genesis Attachments brings new technology to the demolition, excavation and trenching, tunnelling, mining and concrete grinding industries with the introduction of its GCG Cyclone rock and concrete grinder suitable for fitting to excavators weighing 635kg to 113t.

The GCG’s two-hose hydraulic system eliminates the need for a case drain line and simplifies installation. The soft start system and protective valving protect the motor from over-pressure, over-heating and misuse.

The GCG’s pick patterns provide smooth and powerful operation while lower vibrations reduce machine and operator fatigue. Additionally, the cyclone can be used in noise-sensitive areas such as residential neighbourhoods and is available with a chain, gear or direct-drive motor.

www.genesisattachments.com

LIEBHERR at Finland’s Maxpo

The Liebherr Group presented 14 construction machines from earthmoving, material handling and mobile cranes at Finland’s largest trade fair for construction machinery Maxpo, which was held in September in Hyvinkää. The highlights on the Liebherr stand included the R 926 crawler excavator, the LH 30 M material handling machine, the Stereoloader® L 514 and the MK 88 Plus mobile construction crane.





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GREAT INTEREST IN THE NEW IMPACT CRUSHER R1000S

The recent Steinexpo show exceeded the expectations of Kormann Rockster Recycler, which displayed and demonstrated its latest R1000S impact crusher. Many interested visitors, especially from Germany, Austria, Switzerland, but also from the Asian region, had the possibility to see the R1000S live in action and get a closer look at the new crusher. Especially the new features improving the user-friendliness and the reduction of maintenance costs.

"The feedback from the discussions was very positive," said KRR sales manager Norbert Feichtinger. "We had very good conversations with potential customers and will invest a lot of time in personal meetings and demos this fall. With our product range, we seem to meet precisely the requirements of the industry more and more."

Because of the compact transport measurements, it is possible to transport the Rockster R1000S without any special permits. It takes just 10min to unload the impact crusher and put it into operation. If the transport includes the optional screening system the dismantling of the return belt and screen box is not necessary. It is also possible to transport the machine with screening system without a special permit.

www.rockster.at





HITACHI UNVEILS a first for the construction industry

Hitachi has developed an industry-leading innovation as part of its ConSite remote fleet monitoring system. Claimed to be the first of its kind in the construction industry, it extracts data from two sensors that constantly monitor the quality of an excavator's engine and hydraulic oil.

Designed to reduce the total cost of ownership the machine transmits sensor data on a daily basis to Hitachi's remote fleet monitoring system. If the oil quality has deteriorated or the oil has become contaminated, the dealer will be notified via email or text and can take the necessary actions.

The oil sensors will reduce maintenance costs by providing a more accurate estimation of when an oil change is required. "We are delighted to be the first manufacturer to offer our customers this new technology," said Hitachi Construction Machinery service business support manager Tom van Wijlandt. "We know that reliability and machine uptime are vital to our customers, and the new oil sensors will help to enhance this further. Combined with ConSite, this unique development will also continue to improve user experiences of Hitachi construction machinery."



KOMATSU EUROPE introduces WA200-8 wheel loader

Komatsu Europe has launched the WA200-8 wheel loader. With an operating weight of around 12t the WA200-8 is an all-round utility performer for most worksites, with an attachment-friendly quick coupler, a 94kW EU Stage IV Komatsu SAA4D107E-3 engine and up to 4% lower fuel consumption.

Komatsu's redesigned digging bucket further improves penetration and is easier to fill, with a longer bucket bottom, a modified shape of the back and side walls, and a new design of the spill guard. It's easier to fill and offers increased operating comfort, boosts the new wheel loader's productivity and helps to reduce fuel consumption.

The WA200-8 engine can always operate at highest efficiency thanks to precise engine control, reduction of the Exhaust Gas Recirculation (EGR) rate and an upgraded Variable Geometry Turbocharger (VGT). A new engine controller and advanced injection timing help to increase productivity and also reduce fuel consumption, whatever the job.



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Removing the 15t bridge parts.

DEMOLITION

OF THE LITZBRÜCKE, SILBERTAL

Due to a structural analysis error, the Litzbrücke bridge that will connect Schruns with Bartholomaeberg in Vorarlberg, Austria, had to be demolished three months before its completion. There was insufficient load bearing steel allowed for in the calculations and although Vorarlberg Highways Department revealed the bridge was not in danger of collapsing, it would not withstand heavy traffic. So the decision was made to completely demolish and rebuild the bridge.

The local company Bohr-Tec, a specialist in core drilling and concrete cutting work, was contracted to remove the bridge by the State of Vorarlberg. Bohr-Tec managing director Peter Gortano decided to carry out the demolition with Tyrolit machines.

About 360t of reinforced concrete had to be removed in a tight schedule of just six weeks. To meet this time frame the demolition was carried out in steps and planned in advance. The first involved separating the roadway step plate from the abutments and then removing parts of the foundations using the Tyrolit FZ-4S Hydrostress wall saw laid on the tracks.

To achieve the necessary cutting depth of 1.5m, Bohr-Tec had to work up to it slowly and increase the size of the wall saw blades from 1.2m up to the biggest available Tyrolit of Ø 2.2m in four stages. During the cutting it was necessary to fit the largest diamond saw blade with new segments. Tyrolit's service

chain made it possible for the finished tool to be ready for reuse within two hours.

The next step was to break the bridge up into individual parts for removal, each weighing about 15t. Core drillings were made to enable the insertion of Tyrolit DWM***-C diamond wire into the holes and wound around the structure for cutting the concrete. In order to perform the wire sawing as quickly as possible three Tyrolit Hydrostress systems were used at the same time; two SB wire saws with a PPH40RR*** drive and a WCH8*** wire saw with a PPH20RR*** drive. The diamond wire ran at a speed of 23m/s and an operating pressure of 120bar through the concrete.

In the third and last demolition phase, the 24 concrete parts, each weighing about 15t, were fixed to four attachment points and removed

by crane. The construction work on the new bridge is already in full swing and was scheduled for completion in August 2017.





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Aquajet chief executive Roger Simonsson.



HYDRODEMOLITION TODAY

The manufacturing sector in the global hydrodemolition industry is quite narrow with only two main manufacturers, Aquajet Systems and Conjet. PDi reviews the developments in the past year.

Although Aquajet Systems and Conjet are the main manufacturers, there are a few smaller companies developing hydrodemolition equipment on an irregular basis. In addition some hydrodemolition contractors have developed their own equipment for special projects, as standard equipment does not always suit the task. The boundaries for removal of damaged concrete are constantly extending, putting more demands on the flexibility of the equipment.

Growing sales in North America for Aquajet

The acquisition of Aquajet by Brokk opens the hydrodemolition market in the US and Canada. A year ago as a strategy to grow in the worldwide demolition market, the Swedish manufacturer of remotely controlled demolition robots, Brokk, acquired 80% of

Aquajet Systems. Since then, the main direction for both companies has been business as usual.

"However, after the merger with Brokk we now have a good opportunity to use that company's sales organisation in the US and North America to fully reach out to demolition contractors in this huge market," said Aquajet sales manager Patrik Andersson. "And so far it has been a good start with full demand. We are at the moment very satisfied with the result this year."

"A main reason for that is that we now have big demolition contractors that want to buy a complete package from us with robots, power pack and water treatment. This is a new trend which enhances the market and sales for us," said Aquajet chief executive Roger Simonsson.

"So North America is going to be one of our big-

gest markets this year. But also Europe is doing very well and we are very positive about the growth of our sales this year."

One reason, according to Simonsson, is that in the US and Canada, there are enormous needs for renovation of roads, tunnels and bridges, which have been neglected for a long time.

"And in Europe the new EU safety and environment regulations in the European Standards EN 1504 for protection and repair of concrete structures is now being introduced. This new regulation is literally promoting hydrodemolition robots to comply with the new environmental and safety standards. So it is going to be very interesting how the European demolition market will react now," said Simonsson. "And In April 2018 we will show some new machines."

Conjet Robot 557 with XL arm

The latest track driven hydrodemolition robot from Conjet, Conjet Robot 557, is available in both diesel and electric versions.

The hydraulic system is load sensing so the engines rpm will adapt to the power required for the operation

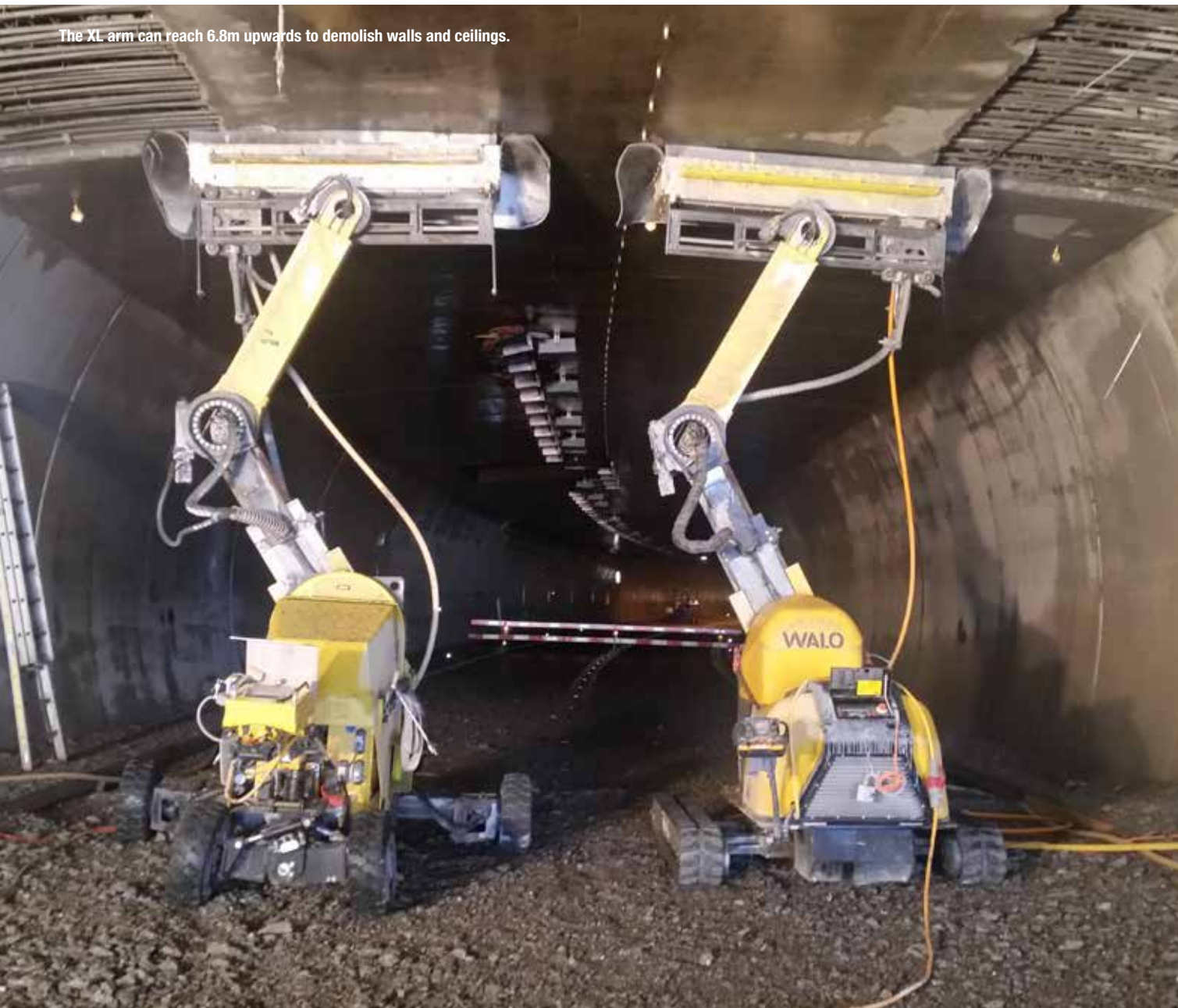
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The XL arm can reach 6.8m upwards to demolish walls and ceilings.



that is taken place. The control system with CAN-open communication of latest design and programming facilitates for the operator.

With only few settings and the machine will be up and producing. Every movement can be controlled from the radio control panel as well as from the display at the robot. There are also a number of programs with special features that can be used when the project so requires.

Safety have always been paramount for Conjet, so the signal to load and unload the pump when the operation goes into automatic mode can be cable or wireless, optional. If the operation takes place in a parking garage than can the operator bring a cable connected to the receiver box into the garage and by so obtain a good signal.

Apart from the compact standard arm can the machine also be equipped with a XL arm. Both arms gives the robot a great deal of flexibility without the need of rebuilding the robot for different objects.

The XL arm can reach 6.8m upwards to demolish walls and 5.8m in the ceiling and further can it reach down below the track level 3.5m to work along a quay.

The feed beam can also be extended in a very easy way if even further reach is required.

Conjet Robot 557 is very stable and ridged and the arm is very powerful to handle the reaction forces from large pumps up to 3000N, in all positions. Furthermore, it is possible to widen the tracks up to 1900mm width and shift the entire chassis 400mm reverse to further ensure stability when the removal takes place on the wall or in the ceiling.

With the XL arm Conjet Robot 557 also has a system that detects that the arm is in an area where safety is ensured. The operator can for the safety of his own and the machine see at the display identify that the robot maintains full stability.

Changing the position of the arm from demolishing wall to a quay only takes a few minutes. With the arm you can also demolish on the side of the machine or reach over a surface that you do not reach.

For scarifying can the robot also be equipped with a rotor of for a circular tunnel with a feed beam bended to the radius required.



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The demolition industry is in high gear in Sweden. There is considerable need for housing and the trend is not expected to decline in the next two years. As long as we live with this situation in the construction market, there is little risk a residential bubble will occur, which is good news for the forthcoming show DEMCON 2018.

"With the situation in the Scandinavian construction market, I think DEMCON 2018 will just at the right time. Our contractors

have a lot to do and competition is tough. It is important the players distinguish themselves from their competitors with greater knowledge, more efficient machinery, tools and methods. Suppliers will be challenged in this competitive market so DEMCON will be an important meeting place," said DEMCON project manager Jan Hermansson.

7th edition of DEMCON

DEMCON 2018, to be held at the InfraCi-

ty north of Stockholm, will be the seventh edition of the show since it was first staged in 1998. The focus is the same since the start and includes a number of demolition services. Demolition encompasses sectors such as concrete sawing and drilling, demolition of all sorts, grinding and polishing of concrete floors, recovery of demolition residues, remediation, dust handling, hydrodemolition and more. "During the nearly 30 years we worked

DEMCON 2018



with the demolition industry, it is interesting to note that many entrepreneurs have embraced so many more technologies than they originally worked with. To offer demolition services or grinding concrete floors is now almost a matter of course if you are a concrete cutter for example. That has happened a lot in this industry and it is precisely this development DEMCON has communicated since the late 1990s," said Hermansson.

Great interest

"DEMCON 2018 will be held on 27-28 September and there is considerable interest and many exhibitors have already booked their space," said Hermansson. There will be two show days at InfraCity with an indoor and outdoor area as usual. In the evening of 27 September the Swedish demolition industry will hold its own event, The DEMCON-kalaset. The winners of the Swedish Demoli-

tion Awards will also be crowned at this event. The nomination process is already in full swing and those who wish to nominate contractors or manufacturers should to submit their nominations at www.professionelldemolering.se.

"It's always fun to start preparing for a new DEMCON event and we always start about a year beforehand. The show's new website is now live so exhibitors can easily book space online," said Hermansson.



Utdelas av tidningen Professionell Demolering i samverkan med Branschorganisationen för Byggnadsberedning.

Det Svenska Demoleringspriset



The Swedish Demolition Awards

It is now time to start thinking about nominations for Sweden's best companies in demolition, concrete cutting, grinding and polishing of concrete floors, remediation and recycling. The Swedish Demolition Awards scheme was launched in 2012. The Swedish Professional Demolition magazine in cooperation with the Association for Building Preparations awards the prize. The winners of the Swedish Demolition Awards 2018 will be celebrated at the DEMCON gala dinner held in the Infracity Ball room on 27 September at the end of the show's first day.

Nominate your company

The nomination process has started and all professional players in the demolition industry are welcome to submit their proposals. A company can nominate itself, but importantly it must clearly describe why it should be nominated. Any company can be nominated in the following categories.

1. Demolition contractor of the year
2. Concrete Cutting Contractor of the Year
3. Remediation contractor of the year
4. Demolition project of the year
5. Concrete Cutting project of the year
6. Remediation project of the year
7. Safety and Working Environment Award
8. Recycling and Environmental Award
9. The Swedish Hydrodemolition Award
10. Manufacturer / Supplier of the Year
11. The Great Innovation Award for Manufacturers / Suppliers
12. The Swedish Demolition Prize Honorary Award

The jury

A jury of well-known personnel from the Swedish construction industry will review the nominations. These include Bo Hörnqvist, founder and former owner of Rivab in Gothenburg, Gunnar Landborg, founder of Disab and a key person in the Swedish concrete cutting industry for many years, Jan Lemos, founder and former owner of JL Betonghålltagning, Lars Eriksson, founder and former owner of Södertälje Borrteknik, Tommy Hällgren, former salesman at Brokk, Arne Holgersson, former product manager and sales manager at Tyrolit, Lars Sandström, chairman of the Industry Association for Building Preparation, Micael Appelgren, chief editor of the trade association machine contractor's magazine ME Magazine and Jan Hermansson, editor Professional Demolition International.

Registration documents

Registration documents can be downloaded from the Professional Demolition website www.pdworld.com/demoleringspriset or ordered from SCOP on telephone +46 8 585 700 46.



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HYDRODEMOLITION

used in Johannesburg bridge rehabilitation

Hydrodemolition technology was employed to remove deteriorated concrete from the structures without any damage to existing steel reinforcement.

Technology supplied by Total Blasting for this project was specifically developed for concrete demolition and was imported from Europe and the USA.

Major structural repairs were recently completed to the M1 North highway bridges over Oxford and Federation Roads in Johannesburg, South Africa. The removal of superfluous concrete was made possible by hydrodemolition, carried out by South Africa's leading water jetting solutions company Total Blasting.

Commissioned by WBHO Construction, in partnership with the South African National Roads Agency, the wider project included the complete rehabilitation of the bridges in Rosebank, involving major structural repairs. Hydrodemolition technology was employed to remove deteriorated concrete from the structures without damaging the existing steel reinforcement.

"Hydrodemolition comprises the use of high-pressure pumps, water and robotics to break down and remove cement-based materials in situ," said Total Blasting Director, Bradley Storer. "It is a special demolition technique that employs high volume. It can target the specific demolition area with relative precision, which supports a cleaner demolition site. Unlike conventional demolition methods like jackhammering, hydrodemolition does not damage the rebar or surrounding structure."

Challenges to the hydrodemolition aspect of the project included site access, which was limited due to the nature of the roadworks and construction, as well as channelling sufficient water to site to feed the pumps, which was managed by using multiple road tankers to supply the water.

Technology supplied by Total Blasting for this project was specifically developed for concrete demolition and was imported from Europe and the USA. The bridge rehabilitation project was completed within deadline and a total of three Total Blasting employees, with specialized skills in water jetting and hydrodemolition, were deployed to this project for its duration.

Total Blasting has a track record of four years' experience in supplying hydrodemolition tools and expertise to the Southern African market and 20 years in water jetting. Selected for its necessary skills, specialized hydrodemolition tools and experience, Total Blasting delivered with its full commitment and attention to detail. "Hydrodemolition is in its infancy in Africa," said Storer. "The success of this project does not only represent a well-respected client that is highly satisfied with the work we have done, but opens up opportunities for hydrodemolition and water jetting in the southern African concrete repair sector."

www.totalblasting.co.za



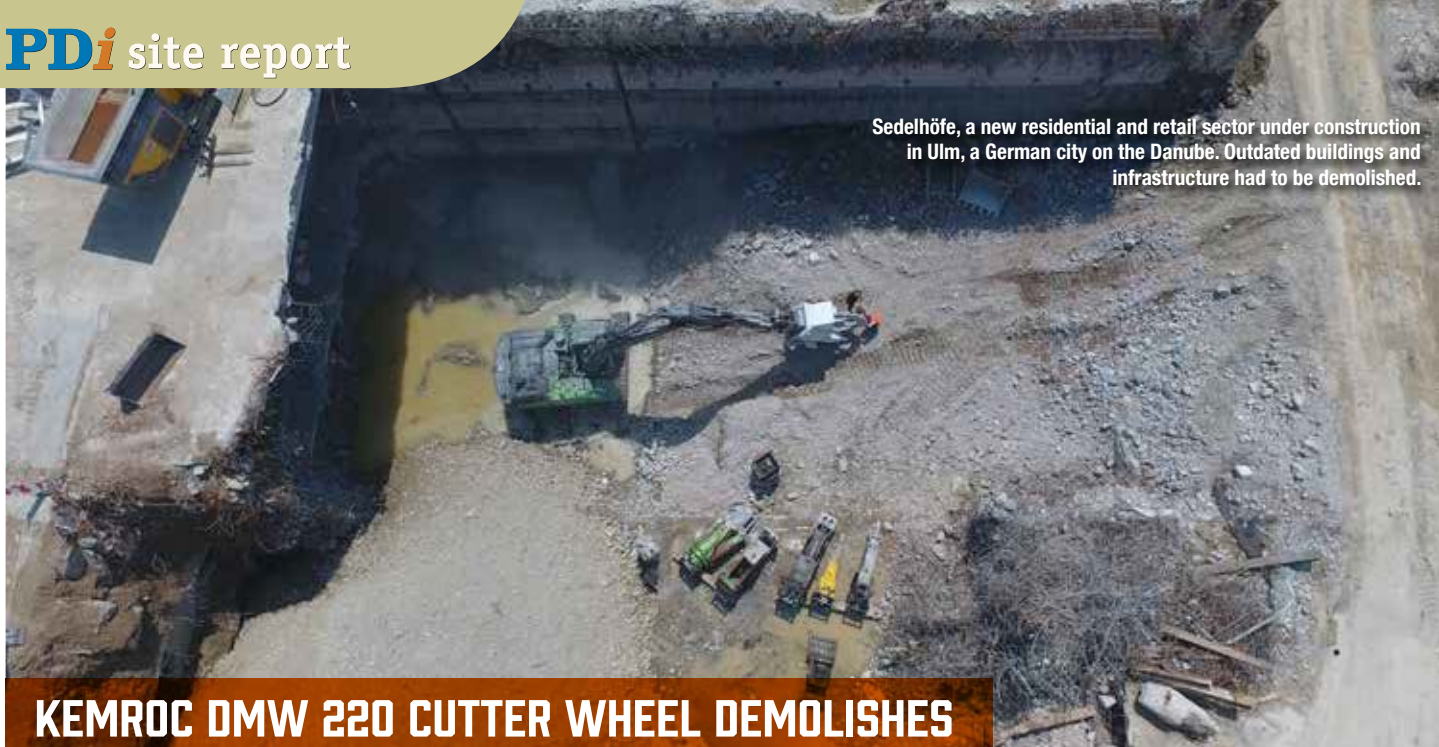
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Sedelhöfe, a new residential and retail sector under construction in Ulm, a German city on the Danube. Outdated buildings and infrastructure had to be demolished.

KEMROC DMW 220 CUTTER WHEEL DEMOLISHES

UNDERGROUND CAR PARK

The demolition project is close to the city centre and opposite the main railway station. Prünstner equipped a 40t excavator with a Kemroc DMW 220 cutter wheel to remove the thick, occasionally heavily re-enforced, concrete structure in record time and without any noise.

The underground car park was made of extremely large concrete segments and the excavator operator and Prünstner managing director, Karl Prünstner were initially sceptical of the cutter's performance, but decided to try it. They rented the cutter wheel for a trial period as the interior parking decks had already been removed using an excavator with conventional breaker and shear attachments. All that remained was the empty shell consisting of 18m high, heavily reinforced, thick walls, an overlapping bored pile wall located behind the concrete walls and the reinforced concrete base.

Many on site were surprised to see the wheel cutting through 30mm diameter rebar. When the cutter wheel attachment was used for the first time, the excavator operator cut a 13m long, 1m deep slot through the garage wall into the bored pile wall behind it. At this point the site personnel were convinced that the cutter wheel could do the job. Slots were then cut from top to bottom in the heavily reinforced internal concrete wall, dividing it into approximately 4m wide sections.

The German demolition and core drilling contractor Prünstner has played a key role in the redevelopment of the Sedelhöfe area in Ulm into a new retail and residential sector. Prünstner, based in nearby Ichenhausen, used a Kemroc DMW 220 cutter wheel to demolish and remove a four storey underground car parking garage prior to main contractor Züblin Spezialtiefbau starting on the new development.

A 100t excavator was then used to topple the sections into the empty centre of old garage where they were broken down into transportable pieces using breakers and shears. The next stage was to use the breakers to remove the section of the piled walls that were not re-enforced and then to remove the last sections of the wall containing rebar. Finally, the 600mm to 800mm thick reinforced concrete base was cut into 4m x 4 m sections with a cutting speed of 2m/min. These sections were reduced in size using breakers.

The concrete was passed through a mobile crusher set to a particle size of 0/45 allowing the rebar to be

separated from the concrete which could then be sold as road building material without any additional handling.

"We achieved more in 10 minutes with one 40t excavator and the Kemroc cutter wheel than we did in one hour using two excavators fitted with breakers," said Karl Prünstner. "The consumable cost was around €20/m cut, which was comparable to the cost of consumables with the breakers. However, the cutter wheel was significantly quieter than the breakers: 107dB(A) was recorded on site with breakers compared to 97.1dB(A) from the cutter wheel which was quieter than the noise from the excavator."

Prünstner considers the Kemroc cutter wheel a fast, quiet tool for infrastructure renovation projects in urban areas and it can also be used in a wide variety of demolition applications where surrounding structures need to be protected.



At rapid speed, the Kemroc cutter wheel cutting through heavily reinforced concrete walls and the bored piles located behind them.



DMW 220 cutter wheel to demolish an underground parking garage.

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A construction worker wearing a blue hard hat with 'OCSA' on it and yellow earplugs is operating a blue jackhammer on a concrete wall. The worker is seen from the back, wearing a light blue t-shirt and dark blue pants. The background shows a rough concrete wall with some openings and a wooden plank leaning against it.

SAFE BREAKING IN THAI

G LAND



In Thailand the concrete sawing and drilling contractor C.S. Applicator has broken through a bank vault's concrete wall with equipment from Tyrolit. The vault is in a bank in the Roi-Ed province and has changed ownership. The new owners needed to renovate the building and extend the size of the vault by dismantling the old front wall while keeping and reusing the vault's safe door.

For over 30 years the building has harboured different banks, but the new owner wants to open a pawn shop and has decided to completely refurbish the building. CSA was recommended by the design and consultation firm KED and in August 2017 CSA was hired by the main contractor KEES to open the vault's front wall. "KED is our fa-

vourite customer. They know the capabilities and readiness of the CSA team and the tools we have. So we were selected for this job", said CSA director Kasit Arwatchanakarn.

CSA's task was to open the 2.5m x 2.5m and 380mm thick vault wall. The resulting heavy concrete blocks were to be moved out on the nearby terrace for transportation. The old safe door also had to be cut out stored for reuse.

The project started for CSA with meetings with the KED, KEES and the owners of the building before bidding and presenting their working methods. The concrete wall was originally estimated to be approximately 250mm to 300mm thick. "We agreed with the clients to take on the job because we have good experience with this kind of work.



From the left owner and director of CSA, Kasit Arwatchanakarn with his staff on the bank vault wall demolition project, Kittipong Sooksomboon, Sirapong Aocharoen, Wuthinan Kongphuwes, Suparat Pimsim and Natthaphol Sroi-Udom.



During the last year we have finished two projects of similar openings of vaults for a provincial government's treasury," said Arwatchanakarn.

The project started with drilling 152mm diameter holes at the ends of the cutting lines to prevent over-cut. After drilling the first hole CSA found the thickness of the wall to be 380mm. "We had to recalculate the weight of the concrete and add more cuts in our estimation to reduce the weight of each block. Each piece could not exceed 700kg in order to keep

the lifting and moving the concrete blocks safe," said Arwatchanakarn.

CSA also used stitch drilling for the middle and lower cuts in the narrow areas. They first cut a small opening in the top of the surface to be removed. This simplified and improved safety when lowering the large concrete blocks. CSA used two chain blocks to lift and pull a piece of concrete out of its place and put it down to the pallet trolley and move it out.

CSA used a Tyrolit WZ Wall Saw with Tyrolit

PPH25S hydraulic power unit. The diamond blades were an Arix 800mm blade, one 825mm and a Tyrolit blade with TGD Technology and another 1025mm blade from Tyrolit with TGD Technology. The core drill system was a Tyrolit DME33 drill motor and a Tyrolit DRA400 drill rig with 152mm diameter Tyrolit core bits.

CSA had five people on the project, which was completed in three days to the client's full satisfaction.

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VIPER LAUNCHES NORDIC BALER

The Viper screening and crushing bucket product lines from the Finnish company Vipermetal, are aimed at construction, earth moving and waste management contractors.

The latest product is the Nordic waste material baler for household waste. The fully automated baling process creates rectangle wrapped bales independently. The waste material is loaded into the baler's

hopper, compacted using hydraulics and either net or plastic wrapped. The finished bale shape and weight is optimized for road transportation or long term storage. Capacity of the Nordic baler varies between 15 to 25 bales/h.

Maintenance checks, diagnostics, as well as programs settings are possible using wireless internet technology. www.vipermetal.fi



Maximus Debuts Crusher at UK Open day

Maximus Crushing & Screening introduced its latest MXJ-1100G jaw crusher at a recent customer open day demonstration at Camden Plant in North East London. It was one of seven machines that also included the 522T Sizing Screen, MXC-1000 Cone Crusher, 409 scalping screen, 512 scalping screen, 516 scalping screen and T80-48 conveyor.

"We're delighted to have the new Maximus MXJ-1100G jaw crusher at the open day as we believe that this machine is a game changer for the crushing and screening industry," said Maximus Crushing & Screening managing director Shane O'Neill. "It features a Cummins engine connected to a specially designed gearbox that delivers direct drive to the crusher, and takes 97% power from the engine. A traditional hydrostatic system would only give around 74% power, meaning that we gain around 24% more power on this crusher."

"This direct drive system allows us to drive the crusher in forward and reverse and features an anti-blocking system which is especially useful when crushing

tarmac, as the operator can quickly joggle the crusher to clear the jaw box of any blockage. This means that the jaw box can be moved forward and backwards instantly and very quickly to unblock it. The MXJ-1100G also runs on around half the fuel compared to a standard hydraulic system, using around 18 litres/h, so this is a huge saving for the operator."

The jaw box features an automatic hydraulic release system where any un-crushable material enters, it will not damage the jaw box, as once a certain pressure is reached the hydraulic rams will open the jaw and dump all the material out of the bottom. The system then resets itself to the correct close side setting. The system also monitors the wear of the jaw plates, so when very abrasive material is used, the system is capable of resetting itself every 20h, meaning that the jaw plates will touch and then reopen to the correct setting. On this model there is also an optional pre-screen allowing customers to take out a rough sellable product.

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New Red Rhino 5000 electric

Red Rhino Crushers has expanded its range with the addition of the 5000 Electric tracked crushers fitted with a 30kW electric motor for contractors working in an environment that cannot tolerate exhaust and noise emissions from a diesel driven plant.

There is increasing demand from contractors for all electric plants and Red Rhino has responded with the new 5000 Electric. It can be supplied with a trailing cable so the operator can "plug and play" and the plant can be tracked within the reach of the cable.

Standard features include full wireless remote control for tracking, crusher start/stop, crusher adjustment and crusher reversal. The plant is supplied with a dust suppression system as standard. Optional extras include an overband magnet and a plant mounted screen.

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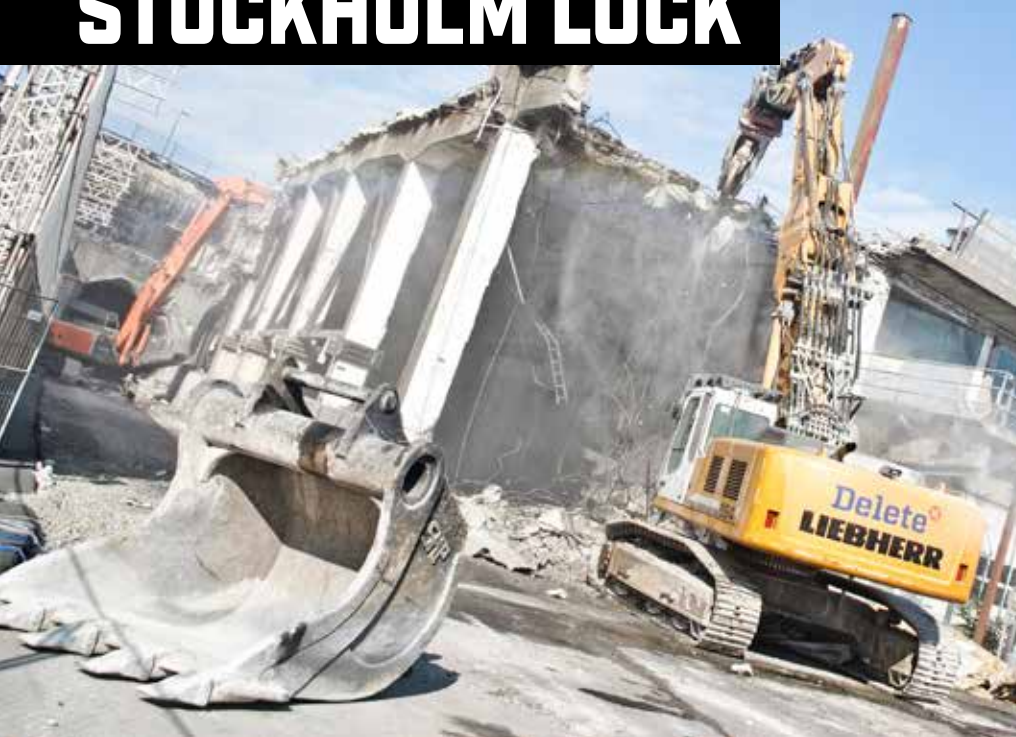
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DELETE DEMOLISHES STOCKHOLM LOCK



Delete, one of Sweden's biggest demolition contractors, is dismantling the 80 year-old Slussen lock in Stockholm that connects Saltsjön, a bay of the Baltic Sea, with lake Mälaren. The lock will be replaced with a new structure and the whole project is expected to take nine years to complete and will cost at least €1.2bn. PDi editor in chief Jan Hermansson reports.

The Swedish demolition industry is becoming internationalized. The jobs are getting bigger, the demands on entrepreneurs increasing and legislation strengthening, which requires bigger players. This often leads to smaller companies collapsing and forming larger and stronger players. In recent years, there have been clear signs of this development, even in Sweden. In countries such as the UK, Germany and France, this has been going on for quite some time.

The acquisition of Demcom

Delete is an excellent example of a company development that began in Finland and spread to Sweden. The company's wave of acquisitions started in Finland and continued in Sweden with the purchase of a number of medium and large demolition, rehabilitation and recycling contractors. The goal was reached when Delete acquired Demcom in Örebro, which was as large as the company's own demolition operations in Sweden.

With the assets in personnel skills and equipment that were available in Delete from the beginning, and what they have acquired, they have established as a very strong and knowledgeable player in the market on par with the really big players around the world. Delete

now has the capacity and competence to take on big and demanding assignments and a good example is the demolition of the Slussen lock.

The Slussen lock project

Anyone who has passed the Slussen lock in recent years can probably agree that it was in a very bad condition. The traffic site, built 80 years ago, that united pedestrians, cyclists, cars, subway and boat traffic, needed to be demolished and rebuilt. Here every day hundreds of thousands meet. Only the subway carries about 270,000 people a day through Slussen. The new Slussen has to be built to meet current and future needs from commuters in Stockholm.

The future Slussen will be a safe hub for pedestrians, cyclists, motorists and public transport. It is also thought to become one of Stockholm's most attractive meeting places with park life, entertainment and culture, restaurants and cafes. The new Slussen will also have a five-fold capacity to discharge water from Lake Mälaren to Saltsjön, to reduce the risk of flooding in Stockholm and in the Mälaren valley. This will also ensure water availability for the approximately two million people who get their drinking water from Lake Mälaren.

The financing of Slussen is managed by Stockholm City. To regulate water levels, other municipalities around Mälaren will probably be part of sharing the costs. The rebuilding of Slussen started in 2016 and will last until 2025. The project is expected to cost €1.2bn.

There are many companies involved in the Slussen project. During the construction phase, the project will employ over 500 people directly and many more indirectly. The head of the two largest projects within the overall project is Skanska. The first project relates to the works in connection with the quay facility, which includes demolition, grinding, laying, foundation, concrete and steel construction. Delete Sweden was appointed for the demolition in the first project. The second project involves Slussen's new construction at Södermalm, which is the southern suburb of Stockholm inner city. More demolition stages are planned as the project progresses.

A Swedish demolition veteran embedded in the project because of his long experience and a senior consultant and senior advocate at Delete is Lars-Olof Dahl. "Slussen is truly a prestigious project for us and we are pleased to have gained confidence. At the same time, I know that we both have the knowledge and resources as few others in Europe. The big challenge with this job is the logistics as I see it," said Dahl.

Just getting the logistics to work was more difficult when the project started. In the area there were a lot of cruise ships and ferries. At the same time, a lot of Stockholmers tried to find their way to the work, to buses and the subway, right on the same spot where both demolition and construction work was taking place. "Before all signage, it was a bit messy. But the Slussen job is a bit of a dream project for us. The site's history and location, as well as our mission in it is gold for us," said Dahl. "The Slussen project was not very technical and it was not so different to other demolition projects. Most important was to figure out a way to transport all the waste from the site in a calm and sensible way so that no third person suffers too much."

Another key person in the Slussen project is Marko Pääkkönen, who is production manager for the demolition activities at Delete. Stage 1 of the Slussen

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project is complete. "Now we are starting with new challenges around Stockholm and the rest of Sweden," said Pääkkönen.

Silent demolition with little vibration

A lot of hydraulic concrete crushers were used and as few hydraulic breakers as possible. This was to minimize the noise in the city centre. On average, Delete had four employees on site and three demolition excavators, one 60t and two 30t. The concrete and reinforcement that was demolished was separated on site and then loaded onto trucks and transported to Västerhaninge, south of Stockholm, where the reinforcement was completely separated and the concrete was recycled. Afterwards the crushed concrete was reused and the reinforcement went to scrap.

"On this project, I would estimate that we had a total recovery rate of 98% to 99%," said Dahl. "The road from Slussen to the recycling site is BK1-rated, which means that Delete could drive fully loaded cars while reducing the amount of trucks that ran in and out of the city. It was a very big advantage from an environmental standpoint that we could halve the number of trucks." At first a lot of demolition waste was stored onsite and this was followed by weeks of transportation and recycling. An estimated 5000m³ of concrete has been demolished and recycled so far. In January next year, Delete will launch stage 2 of the project, which is as extensive as stage 1. Both stages deal with the demolition of two bridges at Slussen, demolition of monoliths consisting of columns, beams and concrete slabs.

Main contractor Skanska chose Delete for the demolition. "In this type of extensive project where many different parameters are relevant to the performance itself, there are usually many things that capture why you choose an entrepreneur before others. We estimated that Delete had both the technical capabilities and the great experience needed to perform this type of job correctly. In addition, Delete has the competence to perform both environmental management and heavy demolition. This in relation to the price is of course also important in selecting a demolition contractor," said Skanska Slussen project manager Martin Klimt.

What was the reason that Skanska chose Delete for the mission to demolish Slussen? Martin Klimt, project manager for Slussen from Skanska and Mats Omnell, Site Manager for the project who had the daily and on-going contact with Delete at the Slussen project during the demolition stage, can best answer this question answers:

"Delete was involved at an early stage of the project, which was important and we could then discuss solutions together," said Skanska site manager Mats Omnell. "It wasn't an option to divide the demolition job to various entrepreneurs and had neither improved nor become cheaper. For this demolition it was imperative that just one contractor should be in charge."

Slussen no homogeneous construction

Dahl said that Slussen is not a homogeneous construction and therefore differs from many other demolition jobs and was more complex. "This meant that the demolition work had to be done in exactly the right order. The conditions are also changed sometimes, even though you have a detailed demolition plan, and it would be even more complicated if the demolition task had been outsourced to several contractors," said Dahl.

Short facts about Delete

Delete in Sweden currently has its headquarters in Umeå in the north of Sweden and has 300 employees. The



The Slussen project in the centre of Stockholm.



From the left Lars-Olov Dahl, Delete and Mats Omnell, Skanska.



Marko Pääkkönen, Delete.



company's turnover in 2016, was approximately €50M. Delete in Sweden is part of the Finnish Delete Group, which is owned by the Danish private equity company Axel. The business is focused on several service sectors, which include industrial restructuring, explosion dumping, demolition and concrete cessation, recycling, and remediation and damage services. The machine fleet consists of punching equipment, demolition robots and demolition excavators up to 140t than reach to a height of 46m.

All machines are equipped with the necessary tools such as hydraulic hammers, shears, crushers, and grapples.

Delete is certified to ISO 9001 and 14001 and was also certified by OHSAS18001 in 2016. The company is authorized to clean asbestos and PCB and permission to transport hazardous waste by road. The acquisition of Demcom Demolition in 2016 meant a significant capacity and sales increase. Delete intends to continue to grow both organically and through new acquisitions in the coming years.

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NEW KEESTRACK B3E JAW CRUSHER

At the MATEXPO in Belgium Keestrack presented the diesel electric B3e hybrid jaw crusher. Its extremely compact transport dimensions, low transport weight and 1000mm x 600mm jaw enables the B3e to continuously deliver up to 300t/h. A 42.5kVA on-board generator supplies the power and offers direct fuel savings and operating cost advantages when driving a connected electrical screening unit or a stockpile conveyor. With up to 5litres increased consumption in compound operations, Keestrack assesses that immediate benefits can be derived thanks to a higher added value through high-quality end-products or a clearly higher stockpiling capacity when operated by a single individual.

Keestrack's hybrid B3e is positioned as a construction site crusher for rapid relocation, even for small

batches. For higher performance demands or operators with access to cost effective electrical power, Keestrack is offering its new fully hybrid jaw crusher B4e. In this case, a 110kW electric motor is responsible for driving the 1100mm x 700mm crusher and in addition an electric 55kW motor/pump unit powers all the hydraulic components. Similarly, the Keestrack B4e can be operated entirely from the mains supply, which Keestrack believes can achieve considerable savings in energy costs of up to 70%.

In mobile applications in the field, the on-board combination of a 242kW diesel engine and 225kVA generator powers the machine, which provides a guarantee to the operator of full flexibility and high investment security on resale.



GSSI offers GPR training programmes

The US ground penetrating radar equipment manufacturer GSSI, offers comprehensive training programmes for new and existing customers on how to use GSSI equipment safely and effectively in the field. Classes are available for the complete range of GSSI products and are conducted by a team of four full time trainers.

The majority of GSSI's training classes are taught at its headquarters in Nashua, New Hampshire. This facility has two classrooms equipped with computers for students and two hands on training areas featuring an indoor utility test pit. For customers located on the West Coast, GSSI offers classes six weeks a year in Henderson, Nevada. All of the classes are complimentary during the initial two year warranty period and can be taken for a fee if students have not purchased equipment or are outside of the warranty period. Classes in Nashua and Henderson range from one to three days, depending on the particular class.

In addition to the regularly scheduled GSSI offers live online webinars and on-site training for customers who cannot travel to attend a class. On-site training classes are provided at customer's facilities upon request

and can be customized or cover the standard material.

Most classes are geared towards the basic learner, but advanced classes are available for those who have at least six months of experience working with the equipment. Training courses generally require no prerequisites, no prior experience with the equipment or technology. GSSI trainers are skilled at teaching users of all educational and skill levels. For advanced users and those looking to go deeply into the technology, GSSI can add any additional training or engineering resource.

"GSSI has invested a tremendous amount of time and money into developing a superior training programme," said GSSI training manager Dan Welch. "GSSI focuses on partnering with its customer to make sure they are successful and training is an important part of that partnership."

The class schedule is posted on the GSSI website so students can select the class and date that meets their needs. Popular offerings include classes on BridgeScan, Radan 7, RoadScan, StructureScan Mini XT, StructureScan Pro and UtilityScan.

www.geophysical.com/training.htm

MB Crusher on the ski slopes

MB Crusher has recently delivered a BF120.4 crusher bucket to a contractor in the Alta Badia ski resort area of Northern Italy. The contractor specialises in the construction and maintenance of ski installations and also has considerable experience in the earthmoving sector.

The MB crusher bucket's ease of transport and that it does not require a dedicated operator were the key factors which led to the contractor's choice of equipment. Mountain regions are complex areas to reach with a traditional crusher, which not only requires special transport arrangements, but often cannot be physically transported in areas where crushing needs to be carried out without incurring huge costs. It is equally impossible or extremely costly to transport the material downhill to be crushed.

Other strengths of the BF120.4 Series 4, which also apply to the whole MB crusher bucket range, are the low maintenance costs and the speed with which it can be put to work on-site, making it easier to crush even relatively small heaps of material.

With the fourth series of its BF120.4, MB has improved the crusher bucket, which has an operating weight of 4.8t and can equip with diggers with operating weights from 30t and over. MB Crusher has increased the production capacity of its BF120.4, which is now able to reach a maximum production of 53m³/h, with a load capacity of 1.3m³. The BF 120.4 S4 has been simplified and now has a new centralised lubrication system and lower maintenance costs.

New adjustment options have also been introduced that increase the range of sizes available from 15mm to 145 mm. The bucket has also been strengthened where needed resulting in greater durability and shock-resistance.



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BROKK IN MADRID

Brokk remotely controlled demolition robots have been playing a major role at the Cuatro Torres complex in Madrid, Spain. The leading Spanish demolition contractor Perfox is using the Brokk machines to demolish an existing structure to make way for the Caleido Tower being built by OHL Desarrollos, one of Spain's largest construction contractors.

The Caleido Tower will be a 165m tall, 35 storey structure on the Paseo de la Castellana, and will house the new headquarters and campus of IE University, as well as a clinic and shopping centre.

Perfox is employing six Brokk machines a Brokk 500, two Brokk 180s, two Brokk 160s, and a Brokk 90. These remotely controlled demolition machines are helping to break up over 1,000m³ of reinforced concrete in the primary walls and slabs and the Brokk 500 has rivalled the performance of a 30t excavator. In the small, restricted spaces, safe and efficient demolition

would have been impossible without the compact Brokk 160. The building has many limited access spaces where Brokk machines have proven to be the best option for completing the project within the tight schedule.

"We're very happy with Brokk," said Perfox general director Ramiro Núñez. "We've been working together for more than twelve years, and we've always received great support from them. We currently have eight Brokk machines, and we'll be expanding our fleet soon. This job would've been impossible to complete without our Brokk machines. The power and performance of these robots are incredible and comparable with much larger excavators, but we can access very small spaces with them. The Brokk 500 is a small monster, and it's working in a place where we simply couldn't bring any other excavator."

www.anzeve.es
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The science of surface preparation

ACCORDING TO DR. SCHULZE



After 30 years in the diamond tooling business, Germany-based Dr. Schulze reinvented itself as a surface prep expert. Within the space of a mere five years the manufacturer has built a range of floor grinding and polishing machines that matches those of the industry's trendsetters. To educate its customers on the ins and outs of the technology, the company runs international workshops a few times a year at its flagship factory near Berlin. PDi's Andrei Bushmarin attended the latest event.

Surface preparation is no longer a fancy emerging technique, which only a handful is privy too. It is now a well-recognized and fast-growing industry with global presence. Having originated in North America, it is still dominated by US manufacturers who are beginning to feel serious competition from their European counterparts.

"We do need the education"

Workshops are an excellent educational and customer communication tool, which Dr. Schulze has mastered to perfection. Unlike most companies that run one-day seminars involving mostly product demonstrations, the German manufacturer offers a comprehensive two-day programme divided into theoretical and practical parts. In the classroom, participants are taught the fundamentals of surface preparation, with a benchmark analysis of all existing techniques and methods. The practical part involves live demonstrations with the possibility for delegates to operate machines. The average workshop attendance is about 25 who come from nearly every corner of the globe.

"From rags to riches" in five years

One cannot but be amazed at how quickly Dr. Schulze has built its surface preparation credentials. Having started from scratch the company now possesses a comprehensive range of surface preparation equipment from small hand-held grinders to sophisticated ride-on machines. One of these at the workshop for participants to experience was the new multi-blade cutter/scarifier DBF-330 unveiled earlier this year at BeBoSa.





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The machine can be used with either a conventional 300mm diameter milling drum or up to 40 270mm diameter diamond blades. The DBF-330 ensures the cutting depth of up to 30mm at maximum cutting width of 333mm, which, according to Dr Schulze, is currently unique. The machine comes equipped with an electro-hydraulic feed drive with continuous speed adjustment, removable weights and an LED light for comfortable operation.

No more cutting corners on corner jobs

Among other machines presented was the single-head grinder DBS-300 Vario designed for treatment of corners and limited-access areas. Processing of the zones near walls, columns and stairs is the most difficult and time-consuming aspect of any flooring project. Typically performed manually with small hand-held grinders, this process is not only labour-intensive and fatiguing, but it also fails to produce a surface matching the main floor in quality.

The DBS-300 Vario overcomes this problem thanks to a host of features including inclinable grinding head, flexible mounted tool cover with two rollers and a LED light for comfortable operation. But its main feature is the 0 to 1200revs/min adjustable speed function, allowing use of PCD, metal-bond grinding and resin-bond polishing tools. The possibility for operators to choose from such a wide range of consumables enables them to process the near-wall areas in exactly the same way as the main floor.

"Ride 'em on down"

The ride-on planetary grinder DBS-820-4H Rider is one of the latest additions to the bigger end of the range. Powered by a 15kW Siemens motor, it has been designed for large-scale flooring projects, it has gear transmission placed inside a sealed aluminium housing with less noise and limited maintenance required.

The four-head grinder comes complete with a hydraulic lifting system for fast replacement of tools and easy transportation. The machine can carry either 12 or 24 diamond tools. It can also operate with high-performance PCD tools for removal of coatings, metal-bond tools for grinding and resin pads for polishing jobs of any kind.

It's all about the right chemistry

Choosing the right machine for a job is a prerequisite but not sufficient by itself. Chemicals known in the surface prep business as "densifiers" or "sealers" are almost equally important. In accordance with the latest industry trends, all the chemical compounds that Dr. Schulze offers under the registered trademark of DRS-FLOOR, are based on lithium. Compared to sodium and potassium silicates, which were the previous chemicals of choice, lithium penetrates deeper into the concrete creating a thick, hard and wear-resistant layer. Totally water-neutral, lithium does not leave behind any salt residue so no additional surface cleaning is required after application.

The DRS-Floor technology from Dr. Schulze makes superfluous any extra coatings, focusing instead on im-

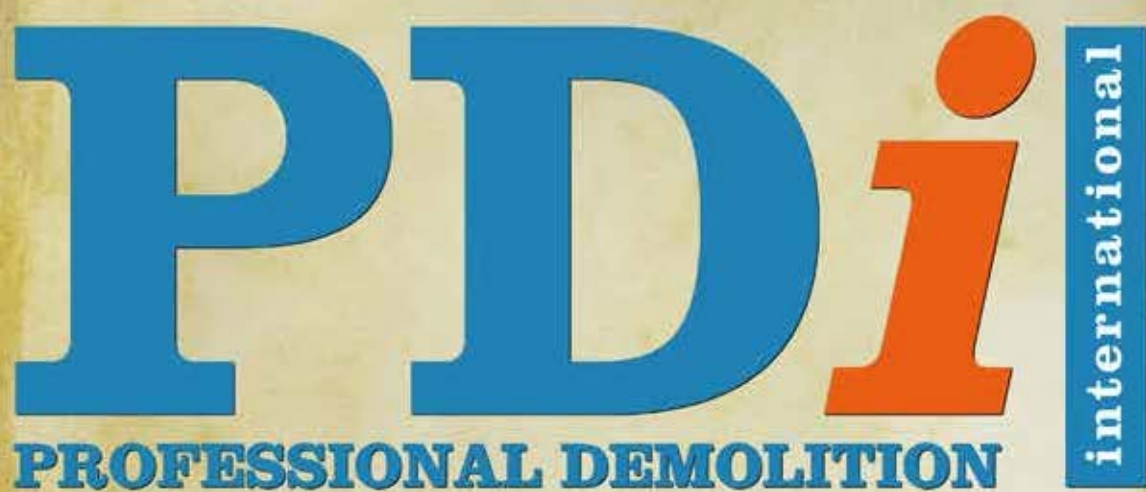


proving the physical properties of a concrete surface. To promote its surface preparation solutions, last year the company launched a dedicated website www.drs-floor.com and began a marketing campaign on most popular social networks.

www.dr-schulze.de
www.drs-floor.com



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GSSI LAUNCHES Palm XT Antenna

The US manufacturer of ground penetrating radar GSSI has added the Palm XT antenna for its StructureScan Mini XT GPR Concrete Inspection System. The Palm XT is a miniaturized GPR antenna that is designed to greatly enhance the capabilities of the StructureScan Mini XT all-in-one GPR concrete inspection system. It is an ideal choice for contractors who need to perform concrete scanning and utility locating services.

The handheld Palm XT antenna turns a basic StructureScan Mini XT into an advanced system by giving users unparalleled access in tightly spaced areas and enabling overhead scanning. The 2300 MHz Palm XT antenna offers superior depth penetration and resolution. It features full keypad control via the antenna top that allows for remote control of the user interface. The antenna has seamless software integration and provides users with three data collection modes; standard, cross polarization, and side car. Standard mode requires no special set up, and is ready for plug-and-play operation. Cross polarization mode highlights non-metallic objects, such as PVC, and deemphasizes metallic objects like rebar and wire mesh. Side car mode transitions the survey wheel to the side of the antenna and allows it to fit into smaller spaces.

StructureScan Mini XT is ideal for locating rebar, conduits, post-tension cables, and voids. The Mini XT can help identify structural elements, including pan deck and concrete cover, and can also provide real time determination of concrete slab thickness. StructureScan Mini XT is backed by a two-year warranty.

Additional accessories for the StructureScan Mini XT include an extension handle with control button options, and LineTrac XT, which adds the ability to detect AC power and induced RF energy present in conduits.

www.geophysical.com



Hyundai expands its wheeled loader range

Hyundai has added HL965 to its range of wheeled loaders. The new HL965 has an operating weight of 20.1t and is powered by the latest Stage IV Cummins QSL9 electronically controlled diesel engine with a gross power of 200kW at 2,100revs/min.

The HL965 offers an improved loading capacity with maximum axle load capacity of 44t at the front and 35t at the rear, with standard 23.5 R25, L3 tyres.

Silent, safe and comfortable the ROPS/ FOPS cabin with fully adjustable seat provides an ergonomic

working environment that offers comfort for the operator. The cabin is fully sound-proofed and the air conditioning system maximises heating and cooling performance by optimising air flow through the cabin. The HL965 has improved visibility, which has been achieved by revising the mirror position. The electro-hydraulic integrated control lever allows operators to operate attachments with ease. There is an option of LED front lights, LED working lights and LED rear combination lights.



Praise for **MB CRUSHER**

A long-term Italian client of MB Crusher, General Scavi e Trasporti run by the Adami family, is praiseworthy of its MB Crusher BF70.2 crusher bucket.

"Before purchasing the BF 70.2 in 2009, we had been using a BF 90.3 crusher bucket for some time," said Massimiliano Adami. "When we passed from excavators with caterpillar tracks to those with tyres, we purchased the MB crusher bucket best suited to this type of machine, the BF 70.2. Nothing has changed with regards to robustness and productivity. From this point of view the evidence can be seen clearly on site, the BF 70.2 has been working for us for seven years and, with the normal wear from this type of work, it is still completely reliable."

"Like all MB crusher buckets, the BF 70.2 is a particularly compact and productive piece of equipment. We really put the resistance of this crusher bucket to the test on site, crushing blocks of particularly resistant

concrete. On site we also crush mixed materials of a smaller size, with percentages of earth, which are in some cases quite high. But even in these situations productivity is more than satisfactory and the bucket does not get clogged thanks to the geometry of the jaws, a very important characteristic of the MB machines".

The BF 70.2 is part of the fourth generation of MB Crusher buckets. In its latest version, the BF 70.2 is even more productive, thanks to a restyling, and is more resistant in the most extreme working conditions. The increase in options for the regulation of the size of output material and a new integrated greasing system render it more functional and operational.

Suitable for machines with an operative weight of over 14T, the BF 70.2 S4 weighs 2.3t and has a load capacity of 0.66m³. Very easy to install, it works with an oil capacity of 140litres/min, pressures of 220bar and counter-pressures of 10bar.



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Per Brøndum – the company's managing director since 2001.



V. BRØNDUM A/S makes the world a cleaner place

Denmark's concrete sawing and surface preparation industry is not big, to put it mildly. Compared, for example, to the neighboring Sweden, it is virtually nonexistent. So every Danish company that has achieved an international standing automatically gets into PDI's crosshairs. Despite the fierce competition from its Scandinavian and European rivals, Denmark-based V. Brøndum A/S has never been the one to bite the dust. Andrei Bushmarin reports from the company's headquarters in Silkeborg.

Denmark is probably the world's most environmentally conscious country. Denmark's ecological standards are among the highest in Europe, and its citizens appear to have the notion of healthy living in their DNA. It is only natural that a major player in the dust control game should come from such a clean-cut place.

Reseller, modifier, manufacturer

V. Brøndum A/S was founded by Vagn Brøndum in 1964 as a family-owned trading company that imported industrial vacuum cleaners from Italy. There was a void in the domestic market for dust extraction equipment at the time, and V. Brøndum was very successful in filling it. The company continued evolving as a reseller until the mid-1980s when Denmark's government tightened the dust control regulations. The existing machinery, and filters in particular, were no longer compliant and this precipitated a cardinal change in the company's development. In order to stay competitive, the company initially modified the machines it imported prior to becoming a full-scale manufacturer in its own right a few years later.

Meet Ronda

Ronda is a brand name of V. Brøndum A/S's most popular range of dust extraction equipment. In the past 20 years the range has grown to 23 models from the smallest Ronda 20 to the largest Ronda 2800H. The top of the range Ronda 2800H is a heavy-duty H class vacuum cleaner designed to process large volumes of

fine cement and wood dust with the option to collect it either in a Longopac bag or a container. The machine is powered by three motors to provide the required suction.

As with all the company's vacuums the Ronda 2800H features the manufacturer's trademark multi-tube filter technology ensuring 99.995% filtration. Thanks to these features, this model is suited for large-scale grinding and groove cutting jobs. Among other highlights of the range are the versatile mid-range vacuum Ronda 200H, which is currently the company's bestselling model, and the pre-separator Ronda CF-501 unveiled earlier this year at BeBoSa.

"Deutschland über alles"

By 1995 V. Brøndum A/S had the domestic market under control, so to speak. Apart from Nilfisk that posed (and still does) a serious competition, there was no other player to challenge its supremacy on the home front. The time was right for international expansion, and located about 200km from the German border, the company had little doubt of its first point of attack.

Thanks to its good reputation and to the fact that its vacuums were certified by SLG, the German institute for testing and certifying industrial products, it did not take long for business to take off. Currently V. Brøndum sells dust control equipment to its customers all over Germany through a network of 20 dealers. Accounting for some 57% of V. Brøndum A/S's international sales, Germany remains the manufacturer's number one priority to this day.

Europe-focused but not limited to it

When asked about the company's short-to-mid term plans, Per Brøndum – Vagn's son who has been steering it since 2001 – said that it would remain committed to the European market. Apart from Germany, the company's business has been steadily growing in France, Switzerland and Norway. The domestic market, too, gives plenty of reason to be optimistic. After nearly 10 years of depression, Denmark's construction industry has rebounded and considered to be booming. Nevertheless, V. Brøndum A/S remains export-oriented, with overseas sales accounting for 60% of turnover.

As far as its marketing strategy is concerned, V. Brøndum A/S still attaches a great deal of importance to trade shows. Given its focus on Germany, the company is a fixture at Bauma and BeBoSa, as well as EPF in Feuchtwangen, a local exhibition popular with manufacturers of surface preparation machinery. As important as Europe is for V. Brøndum A/S, it is testing other markets. Earlier this year the company made it to Las Vegas where its dust control equipment was on display for the very first time at the World of Concrete show.

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"Ronda is a brand name of V. Brøndum A/S's most known range of dust extraction equipment which currently counts 23 models".

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Surface preparation equipment is the core business for AU TOUR DU BÉTON.



Anthony Peuvrel, AU TOUR DU BÉTON's CEO in front of the company's headquarters in Dinan, Brittany.



is already quite impressive, from neighbouring Belgium and Germany to Japan, Australia and North America.

Machines and tools for every application

As a full-line supplier, Au Tour Du Béton offers grinding and polishing machinery along with a big arsenal of accessories and consumables. The current range features single-head grinders, available in 240V and 380V configurations, bush hammers and vacuums. Bush hammers come with a lifetime warranty.

Accessories, which account for a large part of turnover, include dust shrouds, diamond and PCD consumables, and the so-called Scoot device. This is an aluminium frame that presses an angle grinder flat to the surface being ground, ensuring smooth and safe work while taking the stress off the operator's shoulders. Fitting the 125mm, 180mm and 230mm hand-held grinders, the Scoot family has become one of the company's bestsellers.

Europe is the target

Carving a niche in the European market is the goal that Au Tour Du Béton is now actively pursuing. As a "new kid on the block", the company has certain competitive advantages over the industry's behemoths. These include fast and efficient service, flexibility, very short lead times and attractive pricing. All stock items are delivered to customers within 24h, and for domestic shipments delivery can be as short as 15h. A new piece of machinery can be designed, built and shipped out within just two to three weeks.

Aiming to build a dealer network on the European continent, Au Tour Du Béton has chosen German-speaking countries, Benelux and Scandinavia as the first point of attack. Once this mission is accomplished, the manufacturer is going to focus on Eastern European countries, which, according to Anthony Peuvrel, are far more challenging yet very lucrative markets.

Non-stop innovation

Innovation is a byword at Au Tour Du Béton. Following numerous requests from the asbestos industry, the company has developed a robot for surface preparation tasks. Unlike remotely controlled grinders, it can be pre-programmed. The robot moves from left to right as if it was controlled by an operator, but without the necessity to continuously press buttons on the remote control. The program can be modified to make the machine go faster or slower and take a wider or a narrower angle. Thanks to the integrated sensors, the machine is capable of working autonomously in contaminated areas. After a period of extensive field-testing, the robot was launched into the market in late 2016.

2017 saw the launch of the company's first planetary grinder. Also new from the French manufacturer was a model of electric floor saw for small jobs. Powered by a single-phase 220V motor, the floor saw comes with a 350mm diameter blade, providing a cutting depth of 100mm. There are currently five machines working on different sites and, according to the manufacturer, customer feedback is very positive.

www.autourdubeton.com
www.peuvrel.com

Peuvrel and Au Tour Du Béton: A FAMILY AFFAIR

Family is at the heart of the concrete cutting industry. Even big international corporations like Hilti started out as small family enterprises. When Brittany-based Peuvrel was formed in 1985 it was a husband and wife outfit operating out of the basement of their house. Over the years the company has evolved into a nationwide player, but family is still at its core. Andrei Bushmarin reports.

Brittany is arguably the most un-French of the country's provinces. Not much different from the rest of France from the architectural standpoint, it does have a tinge of Britishness to it.

A "made-from-granite" company

Brittany is famous for its many varieties of granite extracted from quarries around the province. It became the cornerstone of the Peuvrel family enterprise during the early years. Rémy Peuvrel, whose background was in mechanical engineering, and his wife Martine started by offering blade brazing services to companies that mined granite in the area.

Cutting blades of 1.6m to 3m diameter were brazed on site, while smaller ones were made at their home. A few years later, the company started selling drill bits, cup grinding wheels and dry blades for stone cutting.

Catering to the needs of mining companies remained Peuvrel's only priority until 1998 when the market situation changed dramatically, forcing the company to reconsider its business model.

Diversifying into construction

The reason for the change was Chinese suppliers of granite who descended on the French market in the late 1990s, driving prices down. Faced with the new economic reality, Peuvrel had to re-think its strategy. Branching into construction was the obvious solution. The fact that Rémy's and Martine's elder son Anthony, who joined the company in 1998, was interested in construction business was another factor in that decision. So Peuvrel started dealing in concrete cutting and drilling machinery, selling such recognized brands as Shibuya, Makita and Demco to French users.

The new millennium's first decade was a time of rapid development in the new direction. Peuvrel's customer base in France was growing fast, so was its staff. In 2005, Anthony's younger brother Julien joined the company and has since become Peuvrel's managing director. One year later, the company established its headquarters and production facility in Bonnemain, Brittany.

Au Tour Du Béton or surface preparation the French way

It was also in 2006 that Anthony Peuvrel decided to venture out with his own project called Au Tour Du Béton. The spin-off company, whose name was a play on words loosely translated as 'all about concrete', focused on surface preparation equipment. Their first machine was the SH320T, a 380V single-head grinder accommodating 320mm grinding wheels.

Encouraged by the market's response, Au Tour Du Béton went on to expand the range with more single-head grinders, bush hammers, dust shrouds, diamond and PCD consumables. Unlike Peuvrel, preferring to operate in its domestic market, Au Tour Du Béton was export-oriented from the start. Its international reach

Some of AU TOUR DU BÉTON's surface prep products.



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KLINGSPOR INVESTING IN THE diamond cutting blade market

The German manufacturer of coated and bonded abrasives, Klingspor, is entering the diamond cutting blade market by investing in a new production facility at its factory at Velyki Mosty, Ukraine, about 50km north of Lviv, near the Polish border.

Klingspor is committed to an industrial strategy with manufacturing at its heart and offers a product line consisting almost exclusively of items that it produces in-house.

Having started manufacturing abrasives at the end of the 19th century, Klingspor is now a global manufacturer with 12 manufacturing locations with a turnover of more than €260M and 2,700 employees. Until recently Klingspor was virtually absent in the diamond sector, where it only offered a small product line sourced from partners. But since May 2015, the situation has changed considerably with the introduction of the company's first diamond product line.

Diamond cutting blades, a product line that accounts for only 3% of its turn-over, had a particular

position and the question was finally raised of investing in the firm's own means of production. Three years ago the decision was made to expand in the diamond cutting blade market with the objective to become a major player in the global market. The first three steps have been taken to achieve this goal and subsequent steps are in the business plan to accompany the growth of the activity.

The first phase of the Velyki Mosty plant was erected in 2010 to manufacture flap wheels, abrasives that require many manual operations and that have a definite economic justification in the Ukraine. As the facility had available capacity and the presence of qualified personnel in the Lviv region, the site was chosen to accommodate the Group's diamonds, within a unit that would be dedicated exclusively to production.

In 2012 Klingspor decided to expand its Velyki Mosty plant by erecting a second production facility dedicated to diamonds on a large building lot. The following year the first machines devoted to production of the first diamond cutting blades were received and others followed in 2014. Finally on May 2015, the new Klingspor line of segmented diamond cutting blades was launched with the series 300 Extra for the low end, 600 Supra for the price-performance ratio and 900 Special for the high end and the intensive applications.

"This is a long-term approach that will ultimately make Klingspor one of the big names in diamond cutting blades on a global level," said Klingspor senior executive Wolf-Dietrich Pfleumbaum.

The ramping up of the plant has been programmed with successive investment phases, in infra-structure, purchase of machines and training of personnel. The Klingspor research and development service, with its own production line for diamonds, is based in Germany at Haiger, with employees that include Ukrainians to facilitate exchanges with the Velyki Mosty plant. All of the studies are implemented in Germany and as soon as the products are certified, large-scale production will start in the Ukraine, where supplemental tests will be executed in the course of manufacturing and at the end of the manufacturing process. All the components are tested in Germany before use in manufacturing in the Ukraine.

Brief fact about Klingspor

Klingspor has been setting global standards in abrasive technology for more than 100 years. The production facilities manufacture more than 50,000 items that fall, among others, into the product categories of coated abrasives, cutting-off wheels, grinding discs, abrasive mop discs and abrasive mop wheels and that are designed for a wide range of different applications. Spread across the globe, their 36 production and distribution locations employ a total staff of 2,700 and afford them the flexibility needed to satisfy the requirements of each regional market. The Klingspor global consulting team is composed of more than 300 field representatives, highly trained technicians and engineers.

This is the first story in PDi Magazine about Klingspor Group. Another two stories about the products development, product lines, manufacturing and the European operations will be published in the following two issues of PDi.

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Recycling and handling waste in

FOCUS AT RWM 2017

Over 11,000 visitors came to the RWM exhibition aimed at providing innovative solutions for the recycling and waste management industries. Although not specifically aimed at the requirements of the demolition and construction industries, there were many exhibits that highlighted solutions specifically for all companies involved in demolition and recycling construction materials.

Outside display area

In the outside area Eggersmann Group, showed its single shaft Teuton Z55 shredder as well as the twin shaft Forus machine along with its Terra Select trommel screen.

On the Molson Green stand there was a large selection of equipment. This was a new venture for Molson, which recently announced a trading agreement with Terex to market its Ecotec range in the UK. This includes Terex's chippers, grinders, trommels, slow, medium and high speed waste shredders and recycling screens.

One of the shredders displayed was the Terex TDS820 slow speed shredder. This shredder features customizable shredding programs that give operators the opportunity to configure the machine to their specific requirements, reduce material wrapping and maximize production. Also featured were examples of the Trommall range developed by Powerscreen Ireland. This included a selection of tracked and wheeled trommels for processing construction and demolition wastes.

First Grade Recycling Systems also displayed some of their trommel screens, vibrating feeders, picking stations, conveyors and elevators, as well as separators using air, magnets and water.

The RWM exhibition is the UK's largest exhibition for the recycling, processing, handling and deriving solutions from waste materials. Held at the NEC in Birmingham, over 500 exhibitors provided an insight into how their equipment and services can help businesses, governments and individuals deal with a variety of waste. This year there was also a great deal to interest demolition companies, with many exhibitors providing equipment and services for the handling, processing and recycling of construction and demolition materials.

Purpose developed screens

Inside the exhibition halls were a whole range of screens that have been developed for the recycling of construction and demolition materials. German company IFE Aufbereitungstechnik and its UK distributor, Enigma Engineers, showed some of their screening technology. These are flat screen designs with an unbalanced shaft for the treatment of materials, waste and recycling. The screen panels are arranged in cascades and their design allows for maximum screen openings, guaranteeing a non-clogging operation. The company also exhibited its Trisomat screen, which has been developed for difficult to handle material as well as its Ifo Variomat.

Jost, through its UK distributor, displayed screening solutions including its pre-separation technology Top-Spin, which is used for the pre-separation of difficult to screen waste. The Jost Flip-Flow screener was also on show as a solution for sticky and difficult to screen materials.

Bulk Handling Systems Europe showed its debris roll screen. This patented technology is ideal for sizing a single stream of construction and demolition waste as the patented discs provides material agitation and separation.

In conjunction with German company Spaleck, Terex Finlay launched its purpose developed 883+. This marries existing Finlay flatbed screening technology with Spaleck's 3D-Combi-Flip-Flow-Screen. The latter is ideal for processing sticky or wet materials with separation available in from approximately 2mm to 120mm. The 3D screening segments guarantee correct grain size with no long pieces or extraneous material for the tension shaft screen on the lower deck.

Demolition attachments

Arden equipment had a wide selection of attachments for demolition including grapplers and sorters as well

as information on its other equipment and services. Durwen Recycling Attachments proudly showed its latest development the 'T' profile fork clamps. This new range of attachments enhances the existing product range providing a smaller scale solution to a variety of material handling and processing applications.

Copex showed the Lidez hydraulic scrap shear with side compression for compacting and shearing of heavy and bulky scrap with an automatic cycle. This cycle includes the dropping of scrap from the pre-load table into the compression box, the closing of the box, the pre-compression of the log and the complete cutting cycle. The Lidez scrap shears are available with cutting force of 800t, 1,000t, 1,300t or 1,700t and compression boxes from 6m up to 10m, delivering production from 41t/h up to 110t/h.

Magnetic separators

Magnetic separator manufacturers were well represented with three showing their products. Master Magnets highlighted its range of overband self-cleaning magnets for the extraction of ferrous metals from a conveyed product stream.

Eriez Magnetics Europe showcased its all-metals recovery ECS module for ferrous and non-ferrous separation as well as its Shred 1 ballistic separator, which picks out the premium low-copper shred from the flow of mixed metals and waste material after it has passed the drum magnet.

Warwick Ward Machinery unveiled the Terex Ecohog THM-ECS2000. This has been specifically developed to deal with material streams, which contain metals. The HogMag Separator is the latest addition to the Ecohog range, providing a mobile eddy current magnetic separator with integrated vibrating pan, magnetic drum and stockpiling conveyors.

Shredding solutions

Italian company Molinari Recycling provided information on its single shaft shredder Tpm2000. This machine uses trapezoidal blades and speed of rotation providing optimum performance in terms of energy consumption, production and maintenance.

Metso, through its Danish subsidiary, showed its PreShredder crawler version, which provides onsite mobility, combined with Metso's new PreShred 4000M which is able to deal with all types of material.

Other exhibits of interest

There were also many companies specializing in handling construction and demolition waste. Bollegraaf Recycling Solutions showed its expertise at system integration, spe-



The IFE range of screens was exhibited with information on their applications.



The Spaleck stand.



A trommel purpose designed for processing construction and demolition waste from First Grade Recycling.



A friendly welcome and information on its products and services on the PRM stand.

cifically separating municipal solid waste and construction and demolition waste into valuable recyclables.

Baughans Barrel Screens provided information on its recycling equipment and rehandling attachments, while Mogensen, a division of Grantham Engineering, promoted vibratory equipment for the raw materials and bulk handling sectors of recycling and waste management. Nihot Recycling Technology exhibited its SDS semi-mobile air separator, which can be used to process a wide range of input materials in order to generate a qualified heavy and light fraction. The SDS can be further used to process screened fractions from solid waste or separating stones from biomass. Coveya, which manufactures the Easikit range of heavy-duty conveyors for the demolition industry, displayed the Easikit 1200 conveyor for high volume industrial applications.



Arden Equipment showed some of its specialist attachments.

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ROCKSTER *live demonstration*

On 30 September Equip Sales and Leasing, of North Haven, Connecticut hosted a crushing demonstration day at their sister company Modern Materials in Hamden Connecticut that included the introduction of eight different Rockster machines.

Equip Sales and Rockster are linked by a longstanding partnership on the East Coast. "We have been working together with Rockster since 2009 and have sold many units in the USA, and including a sale in Bermuda," said ESL sales manager Joe Collazo. "Our clients come from different areas, and we wanted to give contractors an opportunity to find ways to spend what funds they have as effectively as possible. Vendors should be prepared to identify money saving aspects for their products and services. This was the perfect demonstration for construction companies, landscapers, concrete companies and aggregate recycling and road building companies."

Rockster shipped eight different units to the demonstration including Impactor R700S, R1000S and R1100DS; Finishing screen RDS410; Scalping Screen RSS410 and RSS514 and Stacker RST18 and RST23.

All impactors at the demonstration offer Rockster's patented closed-circuit system with the removable screen box and the double functional return/stockpile conveyor. These accessories allow the crushing of material in one pass for high quality grain without further crushing or screening. With the finishing and scalping screens Rockster can provide a wide range of recycling possibilities or processing options. By using a Rockster crusher in combination with a stacker, productivity can be increased through much larger stacking capacity. "We wanted to present a big part of our portfolio, so US customers can get in touch with our products," said Rockster Recycler chief executive Wolfgang Kormann. "In my opinion demonstrations and references are

the most useful ways to promote products like ours, because customers can interact with the machine and get to know all features and different applications. The exchange of experience from different customers is one way more to get trust in our products."

The first live demonstration of the new Rockster impact crusher R1000S in the US was a complete success. The self-monitoring plant has been designed to increase operating and safety comfort and includes a wide diversity of refinements. These include a gap adjustment for grain size adaptation, an integrated measuring system for full machine control and analysis, as well as a two deck pre-screener for a further grain fraction and increase of machine efficiency.

The R1000S has an inlet opening of 1016mm by 734mm, which allows for the infeed of large material and a high output for varying sized material at about 300t/h. Basic features on the R1000S include an adjustable bypass chute, vibration feeder with two deck pre-screen, vertically adjustable magnetic separator, remote

control with colour display, electronic controller with colour display, sound proofing, a dust suppression system and crusher overload protection. The impactor came outfitted with the optional RS100 screen box and the RB92 double function return/stockpile belt. This system has a weight of about 35t, length of 14m, width of 2.8m and height of 3.2m. "I was excited to see the new crusher in action and all of my expectations were exceeded. I like the modern design with the diagonal lines and all the new features with so many extraordinary details," said Rockster US representative Daniel Civinski.

The development of the R1000S was an important step to show Rockster's ambitions for innovations. "By listening to customers' requests for more machine control, as well as higher operating comfort and safety, Rockster has designed a crusher that combines state of the art technology with long proven Rockster standards like the hydraulic system," said Kormann. "We are sure that this was the right step and are proud that we could finally demonstrate our new plant to American customers."





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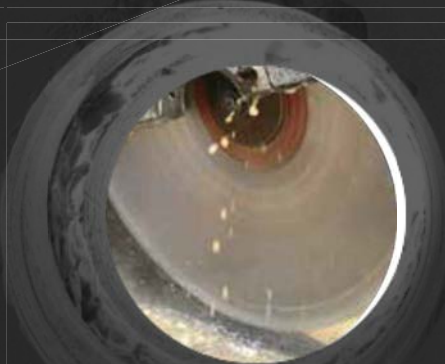
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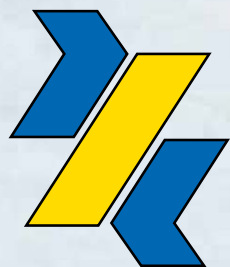
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FUTURE FACED

NOTHING TO WASTE

When the recycling of demolition waste started in the 1990s it was just for concrete and rebar. At the time it was difficult for contractors to sell recycled material even though regulations in various countries in Europe made it possible. But the situation has change for the good of the environment. Currently separations of all kinds of waste handling pays dividends for those who know how to do it and using the right equipment.

Implementing of EU Waste Management Protocol

An important step is the European construction material recycling branch's support and endorsement of the EU Waste Management Protocol. This pointed to appropriate political and other framework conditions for dealing with construction and demolition wastes as the key for a successful circular economy in construction.

Actions should now follow the findings, according to the president of the European Quality Association for Recycling Manfred Wierichs. A high recycling and utilization rate of mineral construction and demolition wastes may be only reached if a high quality of the re-

Separation is currently the word on demolition sites. Never before have contractors separated waste more then at present. The equipment for efficient separation is now so much bigger than 20 years ago. Stricter regulations create a greener environment and professionals make more money on waste handling.

cycled construction materials can be guaranteed. This requires explorations of contaminants to be carried out before starting demolition and planning in advance the selective demolition and clarifying the possibilities of utilization. From the viewpoint of EQAR the Austrian regulations and in particular the Austrian standard B3151 Demolition of structures, as standard demolition method, should be considered as a benchmark.

Wierichs criticizes the lack of acceptance for construction material recycling. This is even more incomprehensible as recycled construction materials are subject to harmonized European construction product standards in conformity with the EU Construction

Products Regulation and has to be marked by CE. With the European test standards for environmental compatibility of aggregates about to be passed, product status for recycled construction materials may be defined on a European level.

Mineral construction and demolition wastes are valuable resources where quality recycled construction products may be produced, which are at least equal to primary construction materials in technological, ecological and economic respect. That is why the dumping prohibitions and fees taken into consideration in the WMP may be renounced, as they would only raise the costs of construction in Europe, according to Wierichs.



The WMP questions the implementation of the existing legal regulations in the individual EU member states. However, without implementation, misuse and improper dumping of mineral wastes may not be prevented, according to Wierichs. EQAR sees a clear need for action in some EU member states. Only by eliminating implementation deficit and improving simultaneously the framework conditions for construction material recycling, will it be possible to implement the utilization rate of 70% for mineral wastes throughout Europe as required by the EC Waste Framework Directive.

The proper tools

Previously there were only rebuilt rock crushers used for recycling of concrete. Now it is possible to buy the perfect machine or tool for exact waste needed to be recycled, such as concrete, steel, cardboard, wood, asphalt, paper or electric installation utilities.

Allu transforms the handling

The Finnish company Allu has demonstrated its new Allu Transformer Series including Transformer M-Series, Transformer DL Series, Transformer DH 4-17 25TS, Transformer DH 3-17 X75 and DN 3-17 25TS. The Allu Transformer Series comprise an excavator, loader or tractor mounted processing bucket, which screens, pulverizes, aerates, blends, mixes, separates, crushes, feeds and loads materials. This results in the feed material being transformed into valuable products.

They enable businesses to choose the right piece of equipment to meet their very particular requirements. All are designed to transform the way in which construction businesses are able to improve efficiency and profitability. Some applications include landscaping and agriculture, earth moving and demolition and mining processes, quarrying and aggregate.

Arjes Impaktor 250 with new features

The German manufacturer Arjes, known for recycling innovation and slow-speed two-shaft shredders, presented the new Arjes Impaktor 250 with new features at the recent show Steinexpo. The mobile crusher developed for demolition and dismantling jobs weighs 13.5t and has a length of 7.5m, width of 2.4m and a height of 2.8m.

The optional finger screen offers further classification of materials into sizes of 0 – 10mm, 10mm to 40mm and 40mm to 80mm directly after the first pass. Another new feature is the longer discharge belt, which increases height and surface of the bulk cone and requires less material removal. Another innovation is the fast changing shaft system, which allows the operator to change shafts and have the machine back up and running again in less than 2h. Arjes offers demonstrations at customer site and with customer material if requested.

EvoQuip launches the Cobra 230 compact crusher

Terex branded EvoQuip has launched the Cobra 230 impact crusher. "It is a machine that provides class

leading productivity, unmatched versatility and excellent fuel efficiency," said EvoQuip product line director Matt Dickson. "The quick set up times, simple intuitive operation and ease of transport makes this machine an ideal solution for all applications."

The Cobra 230 has been on test with J & V Construction in Ireland. "The EvoQuip Cobra 230 has managed to surpass our expectations, handling a mix of difficult rock and heavy duty recycled concrete with ease, and turning it into products we have been able to reuse on our construction sites," said J & V Construction director Gerd McCann.

The rapid set up time and intuitive control system on the Cobra 230 enables the operator to be crushing minutes after unloading the machine. The operator can also adjust the crusher setting using the standard hydraulic assist and without the need for any tools.

The Cobra 230 uses a direct drive system. This, together with the two independent hydraulic controlled, aprons allows the operator to optimize the material throughput and reduction whilst ensuring the best fuel efficiency. Ground level access to the engine, hydraulics,



service and refuelling points ensures maintenance is easy for the operator.

There are a number of key features in the Cobra 230 that ensure optimum material flow through the crushing process. As material moves from the feeder through the impactor onto the product belt, each section becomes wider ensuring an unrestricted flow. The under crusher clearance, the short distance from the crusher discharge to the magnet and the ability to lower the product conveyor while running make it the ideal machine in all applications, the company claims. The compact footprint makes the Cobra 230 easy to transport and ideal for working in urban areas.

Hartl's new attachment screen for skid steer, wheel loaders and tractors

Hartl has added the HSS800 screen attachment for skid

steer loaders, wheel loaders and tractors, transforming the carrier in to a mobile screening plant.

"The unique and robust shape of the sieve frame reduces the force for picking up the material, which saves the carrier device used," said Hartl development engineer Georg Haberfellner. "But the highlight is the capacity of 600litres. This is only possible by a smart hopper and inlet area, also known from the HCS series, in this compact design."

The new HSS800 weighs 600kg and has a screen area of 1.7m². The screen baskets are made of Hardox and the mesh widths can be selected according to customer and application requirements. It can counteract landfill costs and separate material for reuse. Significant cost savings also result from the reduction of transport, logistics and procurement costs.

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IACDS 2018 convention in Tokyo

In 2018, the International Association of Concrete Drillers and Sawers, will hold its Annual Convention, in Tokyo, Japan, on 21 to 23 May. This is the most relevant and important event of the year for IACDS, and will combine professional contents, networking opportunities, and leisure activities. It will be celebrated in the framework of the Japan Concrete Sawing and Drilling Association General Assembly, to be held on 23 May 2018. Participants will learn the situation of the industry in Japan, and how Japanese professionals work through a visit to a site and manufacturing facilities.

Location

The capital of Japan is also the seat of the Emperor and the Japanese government. It is located in the Kanto region on the southeastern side of the main island, Honshu. With a population of 37.8M people, Tokyo Metropolis forms the world's largest urban agglomeration economy. The hotel chosen to host the 2018 IACDS Annual Convention is:

Hotel Mielparque Tokyo
2-5-20, Shibakouen, Minato-Ku
105-8582, Japan
www.mielparque.jp/tokyo

Registration

Participants are asked to register at:
www.iacds.org/convention

Monday (May 21st)

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

Tuesday (May 22nd)

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

Wednesday (May 23rd)

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

Thursday (May 24th)

- Golf Day with JCSDA (optional)

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Weight: 95 kg / 210 lbs
Other: Variable speed control

SCAN COMBIFLEX 330RS

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Current: 15 Amp
Frequency: 60 Hz
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Grinding width: 330 mm / 13"
Weight: 70 kg / 154 lbs.
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& edge grinding

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