

Business

**SAFEDEM
SECURES SUCCESSION**

Page: 12

News

**HUSQVARNA ACQUIRES
WACKER NEUSON
TROWEL AND
GLAZERS SERIES**

Page: 14

Reports

**BLASTRAC'S
WELL-POLISHED
OPERATIONS**

Pages: 23-25

Special Survey

**SOUTH AFRICA'S
DEMOLITION SECTOR
TAKES A POUNDING
BUT SHOWS CAUSE
FOR OPTIMISM**

Pages: 35-39

Special Feature

**WASTE NO TIME
WITH NEW
PRODUCTS FOR
EFFICIENT WASTE
HANDLING**

Pages: 45-48

Reports

**65 YEAR OLD SILO
DEMOLISHED USING
VOLVO'S NEW HIGH
REACH DEMOLITION
EXCAVATOR**

Pages: 54-56

BLASTRAC'S

WELL-POLISHED OPERATIONS

News

**NEW GENERATION
OF CORE DRILL
MOTORS FROM CUTTRONIX**

Page: 20

Special Feature

**LET'S CUT
SOME JOINTS,
SHALL WE?**

Pages: 59-63

PRODUCT NEWS

HOW TO MAKE A PERFECT FLOORING



DSM 250S



DSM 450



DSM 530

» DSM 250S – Subsurface preparation up to polishing

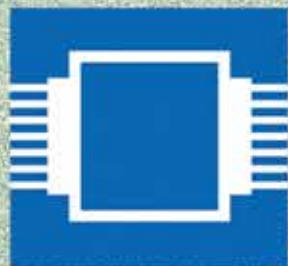
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CONTENTS

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REGULARS

Editorials

- 6 IACDS Annual Meeting 2020
- 8 A big leap for India
- 10 Getting ahead of change

Business

- 6 Epiroc plant in Essen, Germany now certified to ISO 50001
- Experienced global R&D executive joins Nilfisk
- 8 Hidromek exhibits excavators at BICES Beijing fair
- Exclusive Hatz partner in Norway
- C&D Demolition Consultants Ltd announce expansion plans
- 10 Hilti posts growth in a more demanding environment
- High attendance at Hillhead 2020
- 12 Safedem secures succession
- Two strong brands join forces
- New Keestrack dealer for the Baltic region
- Komatsu Europe improves remarketing of used machines

Jobsite Report

- 70 Rockster R800 crushes 280,000m² of reinforced concrete in Russia
- Epiroc HB 3100
- Ten Indeco hammers

News

- 14 Husqvarna acquires Wacker Neuson trowel and glazer series
- New 1800H Power from Ronda
- Registrations and booked exhibition space up for SaMoTer 2020
- 16 New hybrid screen from Rubble Master
- Komatsu Europe launches GD675-7
- New range of Indeco IMH mulching heads
- Dustcontrol launches Tromb Edition 2019
- 18 MB Crusher MB-R500
- Automated dust under control with CURT management software
- DX300LC-7 30 t Stage V excavator from Doosan
- 20 New generation of core drill motors CUTTRONIX CM-10



- 52 Cams recycling machines made in Italy
- 68 JetPower480-Vario from Uraca
- 78 Diacom celebrates 40th anniversary
- Reports**
- 23-25 Blastrac's well-Polished operations
- 50-51 Tailor made demolition equipment for extra delicate projects
- 54-56 65 year old silo demolished using Volvo's new high reach demolition excavator
- 72-73 "Our millennials are driving the digitization process"
- 74-76 German Wolff will strip away your floor worries
- Shows**
- 33-34 Go India Go!
- 80 Over 200 exhibitors at German twin trade shows
- Earth moving machinery sales boom worldwide
- Associations**
- 82 IACDS celebrates its silver jubilee
- Steelwrist becomes a member of EDA
- DA Innovation Award 2020
- EDA becomes member of ECCREDI

Special Survey

- 35-39 South Africa's demolition sector takes a pounding but shows cause for optimism

Special Features

- 26-32 New concrete floor grinding and polishing equipment
- 45-48 Waste no time with new products for efficient waste handling
- 59-63 Let's cut some joints, shall we?
- 64-66 Big changes in hydrodemolition



IACDS Annual Meeting 2020 will take place in conjunction with the Bebosa Show in Willingen

A great year is soon ending and I would like to use this moment to sit down and let this year pass by. In April I was elected president for two years, with this being a very deep cut in my vita, although following Julie White as president will be a hard challenge. We had a great bauma with a very successful Diamond Award Ceremony. The entries were just amazing and we got so many making it really hard to decide on just one winner.

Now IACDS has just come back from India, where the Indian Demolition Association (IDA) has been established as India's very own association. I am very grateful and was deeply honoured that IACDS was invited. At the launch of the IDA the IACDS board member Dr. Martin Gödickemeier had the opportunity to make a presentation on the IACDS, our values and our work. We are also very proud that the IDA has applied for membership for the IACDS and look forward to welcoming the IDA into our ranks.

We have also welcomed back the Austrian association for concrete cutting and drilling (VBS) into the IACDS. 24 years ago, the VBS was a founding member of this association, thus with our silver anniversary next year, I am very proud to have them back as a member. This silver anniversary will be celebrated on 25 and 26 March in Willingen as part of the Bebosa show. There will be a dinner on the Wednesday Evening and general assembly on Thursday morning. So, mark the date!

Bebosa is a very popular German trade show, which is held every 3 years in the year after the bauma in the locale of Willingen. In 2020 the IACDS will combine its annual convention and the 25th anniversary celebration with the Bebosa show. This will bring international guests from all over the world to Bebosa and underline the importance of the successful model of the show. Hopefully you'll be able to come and see for yourself, and if you do, you will find out that this will be a perfect event to network and exchange with wonderful people from all over the world.

Experience shows that the last weeks of the year are still a bit hectic, but I still wish you some time and leisure to prepare for the upcoming Christmas celebrations. One thing is for sure: Christmas is definitely coming on 24 December. My next column in PDi 6-2019 which will be out around new year. That is why I already now take the chance to wish you all a Merry Christmas and a Happy New Year.

All the best!

Michael Findeis, President of IACDS



Epiroc plant in Essen, Germany now certified to ISO 50001

Epiroc's production company in Essen, Germany, is the first unit within the Epiroc organisation to be certified to the stringent ISO 50001 energy management system.

Since the factory's initial certification in 2016, continuous energy saving initiatives have led to substantial reductions in energy consumption, with the plant being recertified in 2019. The Essen plant manufactures hydraulic attachment tools for excavators, such as medium and heavy hydraulic breakers and silent demolition tools. This involves large scale manufacturing using heat treatment and other energy intensive processes.

The strictest of all the ISO standards, ISO 50001, requires documented yearly reductions in electricity and gas consumption, which has led the Essen factory to introduce a number of effective energy saving initiatives. The heat treatment process has been optimised to avoid wasting energy, with ovens only being operated when they are filled to capacity. Optimum quantities of parts and materials are

used at all process steps and a new powder coating system which works with lower temperatures is currently being tested. Additionally, LED lighting is used wherever possible.

A team representing different functions within production and SHEQ is responsible for making continuous improvements, with energy consumption being monitored 24/7, allowing the results of the ongoing initiatives to be measured immediately. There are clear benefits for both the environment and the Essen plant, and, as such, during 2017-2018, the plant achieved a 9% reduction in electricity and gas consumption, while at the same time increasing output. Lower energy consumption lessens the plant's environmental impact and helps reduce operating costs. Another benefit for Epiroc is that ISO 50001 certification makes it easier for the company to obtain external financial support for environmentally driven investment.

Other ISO certifications held by Epiroc include: ISO 9001 quality; ISO 14001 environment; ISO 45001 labour safety.

Experienced global R&D executive joins Nilfisk

Nilfisk has appointed Pierre Mikaelsson as new executive vice president, global head of Products and Services and member of the Nilfisk leadership team.

Pierre Mikaelsson brings more than 20 years of international R&D and product management experience with some of the world's leading technology global companies to his new role. "We are very happy to welcome Pierre Mikaelsson to Nilfisk," says Hans Henrik Lund, CEO Nilfisk. "Pierre has worked with R&D and product management in almost all parts of the world and successfully built up and run R&D departments for some of the world's leading technology companies. He has a solid experience, which I am certain will benefit the continued development of our strong product development organisation at Nilfisk."

Pierre Mikaelsson comes from a position as chief technical officer (CTO) for KUKA Robotics China, one of the world's leading specialists in robotics/automation. In this role, he has been responsible for technology strategy, as well as building up R&D in a joint venture with Midea. Prior to this, Mikaelsson was with ABB for 15 years. ABB is a global

technology leader within areas such as electrification, industrial automation, motion and robotics and discrete automation, with a reported net income of €1.971B. Within ABB, Mikaelsson held various roles, most recently as CTO (Sweden) which included the global responsibility for technology and R&D in the robotics business unit.

Pierre Mikaelsson will relocate from China to Nilfisk's headquarters in Copenhagen. As of 1 June he has taken over the position of global head of Products and Services from executive vice president, Lars Gjødsbøl, who has played a key role in the transformation of Nilfisk. "Lars Gjødsbøl has had a significant impact on Nilfisk, both as global head of operations, during his tenure as acting CEO in 2017, and since then as head of product development, where he has globalised our R&D organisation and made strong progress within autonomy and digital services," says Hans Henrik Lund. "In addition to that, Lars has been a vital part of the Nilfisk leadership team for the past 13 years. For that, and much more, we will miss Lars, but also respect his decision to pursue new challenges."

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A BIG LEAP FOR INDIA

November 2019, or to be more specific, Wednesday 13 November, was an important milestone for the Indian demolition industry. On this day, the first Indian demolition association was inaugurated and the first Indian demolition conference was organised at the Sahara Star Hotel, in Mumbai. Mohan Ramanathan, a long standing industry professional in India has for many years had the idea to start up an Indian demolition association. The Indian demolition industry today consists of over 200 medium and large demolition contracting firms and over 10,000 small firms. I met with Ramanathan at the PDi booth at the bauma fair and the result from that meeting was the organisation of the first Indian demolition conference in Mumbai called Demtech.

Parallel to the conference, a gala dinner marked the founding of the Indian demolition association. We at PDi Magazine are very proud to have helped and support the organisation of the Demtech event in India this year, and we hope this will lead to fruitful cooperation with the IDA for many years to come, with the plan being to organise Demtech every second year. I have personally been very impressed with Mohan Ramanathan's energy, endurance and great dedication towards the Indian demolition industry. He is a true entrepreneur and the right person to have been elected the first president of IDA – Indian Demolition Association. In PDi issue 6, we will publish a full report about the event in Mumbai and the inauguration of the association.

As to the current issue, PDi 5, it carries our annual feature on concrete floor grinding and polishing equipment. There is always a lot going on in this sector, with the feature this year being packed with a great deal of news. Three other interesting features well worth reading are waste handling equipment, floor and road saws and our special feature on hydrodemolition equipment. The 'big' news in terms of hydrodemolition is that the Swedish-American company, Gulfstream Nordic Holdings, has acquired the majority of the shares in Conjet, the Swedish manufacturer of hydrodemolition equipment. With new majority owners Conjet will receive the financial muscle to further develop and market its products worldwide. The US market is of particular interest to the partially US owned major shareholder. As well as these stories, there are new product releases, job stories and reports from the international demolition and concrete cutting markets in this issue.

Now, as the closer we get towards the end of the year, the expectations on 2020 increase. The first quarter of 2020 starts out quite intensively in terms of trade shows. First up is World of Concrete in Las Vegas in the beginning of February. The next big event is the NDA Convention and Expo in Austin, which is taking place 22-25 February. Just a couple of weeks later the US answer to bauma, Conexpo-Con/Agg opens its gates. Another few weeks later in Verona, Italy, the 2020 edition of Samoter will be organised, which is now the largest European building and construction show after bauma and Intermat. In the end of March the IACDS will hold its annual convention 2020 in Willingen, Germany. The convention takes place 25-26 March and is organised in direct conjunction with the German concrete sawing and drilling show BeboSa that takes place on the 26-28 March, also in Willingen. Just a few days later, the US concrete sawing and drilling association, CSDA, will hold its annual convention in Carlsbad, California.

These all mean that if attending conventions and trade shows is a major part of your business, February and March 2020 are going to be very busy indeed next year.

Jan Hermansson
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Hidromek exhibits excavators at BICES Beijing fair

Hidromek attended the BICES 2019 international construction machinery, building material machines and mining machines fair held in Beijing, China, from 4-7 September 2019.

In 2017, more than 100,000 people from more than 70 countries and regions visited BICES, which is held every two years. This

makes the show ideal for Hidromek to exhibit such machinery such as wheeled and crawler excavators, together with other representatives of its construction machinery offering. Amongst the equipment showed was the HMK 140 W and HMK 140 LC, HMK 220 LC and HMK 300 LC P wheeled excavators.



Exclusive Hatz partner in Norway

As of 1 May, the Norwegian company Anleggsgruppen has been providing existing and new customers with comprehensive support for all products and components from the German engine manufacturer. In order to help Norwegian customers become more familiar with the Hatz portfolio, service staff has been undergoing intensive training at the local Hatz training centre and then receiving regular additional training.

Anleggsgruppen has made the ideal start as a sales partner as its 15 person team, under CEOs' Per Gunnar Holmgren and Paul

Endresen, processed the first orders for the delivery of new industrial engines for a new Norwegian customer. Igor Hahn, who works in customer service at Hatz, is confident that the engine manufacturer has found the ideal partner in Anleggsgruppen. "Paul Endresen has worked together with one of our technology partners, Ammann, for several years and has long been familiar with Hatz engines. We are excited to have found such an expert contact for our Norwegian customers in Anleggsgruppen," says Hahn.

C&D Demolition Consultants Ltd announce expansion plans

Following a year of project awards and a shortlisting in two categories at the World Demolition Awards, C&D Demolition Consultants Ltd has announced additional services to strengthen its portfolio of demolition related services.

C&D's Mike Kehoe says of the expansion: "This year has seen an increase in the number of projects where our clients have initially employed us to carry out demolition consultancy and then have added to our scope of work by requesting structural engineering services, temporary works services and as-

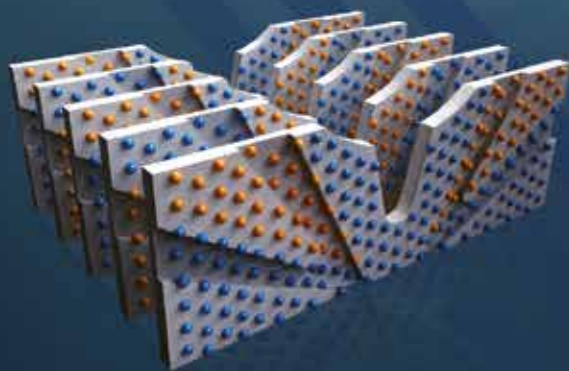
bestos removal advice. I now think the time is right to offer those key services as part of our consultancy at all times."

C&D Demolition Consultants Ltd has employed two structural engineers (both of whom are demolition engineers) to cover increased demand as well as an asbestos surveyor to carry out R&D Asbestos surveys for clients at the outset. "We feel that the additional services will strengthen our offering to clients as they will be able to go to a 'one stop shop' for all of their demolition concerns," concludes Kehoe.

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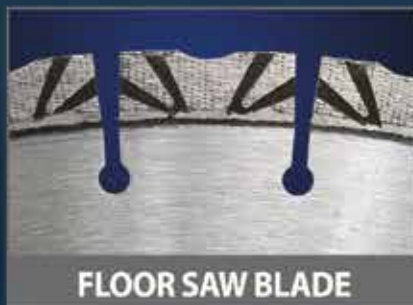


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Words from the EDA President

GETTING AHEAD OF CHANGE

Since EDA began as an association, there have been many changes in the demolition industry, not only in terms of the machinery and techniques used, but also in paperwork and the surrounding aspects of the job site. During this time, we have worked actively to adapt to these changes and even to develop proposals to anticipate some of them. Through cooperation with other European groups and organisations related to the sector, it is possible to turn projects into real initiatives that improve the activity of companies and workers involved in demolition.

One of our most ambitious projects is now focused on 2050. Specifically, the manifesto 'Construction 2050: Building tomorrow's Europe today', which is supported by more than 15 European organisations, including EDA. The initiative aims to support the construction sector in adapting to meet key upcoming challenges and promote the sustainable competitiveness of the sector.

Looking to the future, Europe is basically urban, with around 75% of the European Union's population set to live in urban areas. This shows the value of the construction industry in our day to day life: we spend much of our time in buildings and it is therefore important to look after how they are built, maintained and renewed. For this reason, it is necessary to consider at the present time a sustainable construction system that properly manages the waste generated in construction and demolition, and its reuse.

In addition, it is important to stimulate more research and innovation, as well as setting the right framework

for construction companies to adopt and integrate new technologies in their processes and daily operations, hence transforming their businesses. To achieve these goals, a strong partnership between European institutions, member states, construction social partners and stakeholders is essential. With the challenges set out in 'Construction 2050: Building tomorrow's Europe today', we will continue to work together to promote the changes that the future is asking of us today.

About EDA

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

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

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Hilti posts growth in a more demanding environment

The Hilti Group increased sales over the first eight months of the year by 4.2%, to €3,600M (approx.). The construction technology group posted significant growth in terms of both operating result (11.1%) and net income (+11.2%).

"Due to political tensions at both the international and local levels, the economic climate has not grown any easier. Overall, the market dynamics have eased somewhat, which can be seen in the slight reduction of our growth rates," commented Hilti CEO Christoph Loos on the intermediate result. In local currencies the rise in sales over the last eight months was 6.4%. Negative currency influences have increased in recent months due, among other factors, to the renewed weakness of the euro and devaluation of the British pound.

The regions of Europe and North America were the growth pacesetters, both advancing 7.1% in local currencies. Latin America also posted strong growth at 9.4%, with the recovery in Brazil making a significant contribution.

The Asia / Pacific region achieved growth of 4.7% with negative influences from the difficult environments found in both Hong Kong and Korea. The situation in the Eastern Europe / Middle East / Africa region (+2.8%) was mixed with Russia and the Eastern European markets contributing to growth. Business in the Gulf States and Turkey remained difficult due to ongoing political uncertainties.

Despite increasingly negative currency influences and continuing investments, the Group's operating result was 11.1 % higher (€4,590M approx.), while net income grew by 11.2% (€331M approx.). This resulted in solid levels for both return on sales (12.9%) and return on capital employed (21.6%). Against the background of local challenges in certain countries and international trade disputes, the Hilti Group anticipates an increasingly volatile economic environment. For the full year, the company expects growth rates in both sales and profitability to be in the mid-single digit range.



New exhibitors drive high attendance at Hillhead 2020

The organisers of British quarrying, construction and recycling exhibition Hillhead report that demand for space at next summer's event is unusually high.

The outdoor floorplan is close to being finalised with over 90% of space sold. In addition to the usual Hillhead regulars, this year's extension to the showground has allowed a plethora of new companies to attend including, among others, Yanmar, Hidromek, MB Crusher, Magni Telescopic Handlers, McLanahan Corporation, Merlo UK, Arjes

(Doyle Machinery), BHS-Sonthofen and DAF Trucks. Companies exhibiting for the first time indoors include Balluff, Criptic-Arvis, Petro-Canada Lubricants, Senseye, Bonomi Group and Crush+Size Technology, to name a few. "We know that Hillhead is an extremely popular show in the industry calendar and we always have an excellent response from exhibitors, but this year the demand has been overwhelming," says event manager Harvey Sugden. Hillhead will take place from 23-25 June at Hillhead Quarry, near Buxton, UK.



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Safedem secures succession

Safedem has been a major employer in Dundee for many years and is now employee owned. Ownership by the Safedem workforce is a move designed to secure the business's future and reward the long serving team, with William Sinclair remaining as managing director.

Mr Sinclair, a former president of both the National Federation of Demolition Contractors and the European Demolition Association, instigated the change in ownership structure to recognise and reward the contribution of the Safedem team, many of whom have been with the company for 20 years or more. Sinclair said of the change, "Truly successful businesses stand the test of time with careful succession planning and strategic thinking. I have always recognised the contribution of all the Safedem team towards the success of the business. The move to employee ownership will allow the business to develop and plan for the future and is due recognition of Safedem's excellent employees."

Founded in 1974, Safedem has been responsible for carrying out some of the largest, most complex and high profile demolition contracts ever undertaken in Scotland. These include large scale regeneration projects such as Anderston in Glasgow and Ardler in Dundee, as well as numerous complex explosive demolition projects across the country.

Safedem has been nominated 13 times at the World Demolition Awards, winning on eight occasions and being named World Demolition Contractor of the Year on two separate occasions. In addition, the company was the first winner of the Chartered Institute of Building (CIOB) specialist award which pitted Safedem against specialist contractors from across the construction spectrum. "All of these awards have been down to the hard work of the entire Safedem team. The move to employee ownership recognises that contribution and is a fitting reward for their loyalty and dedication." William Sinclair concludes.

Two strong brands join forces

OilQuick and Engcon are two internationally recognised strong brands. OilQuick is a manufacturer of fully automatic quick coupler systems and Engcon manufactures tiltrotators and accessories for excavators. Recently the two companies have strengthened their cooperation.

"The companies have had a close collaboration for some time, but we have now chosen to deepen it further. One can either behave like our competitors, make the decision to copy products, or one can be like us and collaborate in order to achieve success," says Henrik Sönerud, CEO of OilQuick AB. "Engcon and OilQuick complement each other and we are convinced that we will help each other to strengthen our leading positions both as regards full automatic quick couplers and tiltrotators," comments Stig Engström, owner and founder of Engcon AB.

OilQuick expands its tiltrotator model range

Through the collaboration with Engcon, OilQuick will increase the number of makes of tiltrotator it can connect. With this new collaboration, OilQuick will be able to offer tiltrotators with OQ couplers together with Engcon's tiltrotator. The series will be branded in OilQuick's grey colour scheme and sold under OilQuick's trademark and name. The products will be marked 'Engcon Inside' to clarify their origin. Henrik does state however, "It is important to point out that it will still be possible to get tiltrotator models from other manufacturers."

"We absolutely want to flag up Engcon's name. It is something that guarantees quality

and we naturally want to benefit from that. It is a clear sales argument and quality has always been a priority for us at OilQuick," says Johan Lindqvist, sales manager at OilQuick AB. Johan continues: "One of Sweden's largest dealers in tiltrotators commented on the collaboration: Finally, the best of both worlds, now we can sell exactly what the end customers have been asking for – a top quality coupler and a top quality rotor body." Both OilQuick and Engcon will greatly benefit from the collaboration, primarily helping each other to grow in different geographic markets. Engcon is very strong in the Nordic area and OilQuick naturally sees an opportunity to sell large volumes of tiltrotators with OilQuick technology.

Great potential for growth in German speaking countries

OilQuick's strongest market is the German speaking countries, with over 3,500 OilQuick quick couplers being supplied there last year alone. This highlights the potential for Engcon's tiltrotators in the coming years, as Engcon has worked to increase sales in Germany and the rest of Europe for some time. There has been intensive collaboration between OilQuick Deutschland's CEO Franz Schauer and Engcon Germany's CEO Martin Engström (son of Stig Engström) to develop a customer adapted tiltrotator programme, which has been developed to meet customer's demands. The most common tiltrotator sizes equipped with the OilQuick OQ65 and OQ70/55 models are already available for delivery.

OilQuick Deutschland will be moving into newly built modern premises in Steindorf at

the beginning of next year. This will serve 'as a centre of excellence' for further collaboration within development, production and service. The new premises will also contain an automated replacement parts store for quick replacement parts supply. With the improved resources dealers and customers in German speaking countries will be provided with increased levels of support and service.

Model availability

The agreement between the two companies will see all models being available in all countries where OilQuick has a sales presence. These will include all Engcon's models for excavators from 1.5t up to 33t, matching initially OilQuick models in the 14t – 19t range. The tiltrotators will be named OQTR-E and are expected to be ready for delivery in Q1 / Q2 2020 depending on the specific model. "This collaboration will shorten our delivery times significantly. Previously, the delivery times for our tiltrotators were too long. With Engcon's production line and our own added value, we have both shorter delivery times and more attractive price levels," says Johan.

"We also have better aftermarket service for the tiltrotators than previously. This is an important part of the collaboration and something that we hear from our customers all the time. Warranty, service and replacement parts management are vital parts of business these days. All new features and updates will be announced first on social media, so follow OilQuick on Instagram and Facebook to be kept up to date with all the latest news," concludes Johan.



Paekivitoode Tehas management visiting the Keestrack headquarters in Bilzen.

New Keestrack dealer for the Baltic region

As of 1 September 2019, Paekivitoode Tehas OÜ became the new Keestrack dealer for Estonia and Latvia.

Over the past 60 years, the Tallinn based company Paekivitoode Tehas OÜ has under chairman Vladimir Libman and CEO Kuldar Õunapuu, become one of the leading building material suppliers in the region. Today, total annual production is in the region of 1.2M t including a complete range of crushed aggregates, washed sands and gravels as well as high quality recycled building materials.

Recently, the company has developed its own processes for the environmentally friendly excavation of minerals. At its main

quarry in Vão, the company has introduced numerous modern processing systems, including the use of a track mounted processing line, consisting of a Keestrack impact crusher and a classifier.

"Implementing that project, we've got convinced about the innovative solutions and high quality of the Keestrack technology," explains CEO Kuldar Õunapuu. "We see great potential in many sectors of the Estonian and Latvian building materials industry, especially for the diesel electric drive concept for crushers and screens of all performance classes." The agreement with Paekivitoode Tehas OÜ cover the entire Keestrack range.

Komatsu Europe improves remarketing of used machines

Komatsu Europe has announced an upgrade of its used equipment web site, used.komatsu.eu, which has been redesigned and developed in collaboration with Mascus and Ritchie Bros Asset Solution.

The new complete end to end solution web-site is mobile and user friendly, with software and improved tools that will help Komatsu and its European dealers to better manage, analyse and remarket their used equipment via an inventory management system (Komatsu IMS). Komatsu IMS is accessible by all European Komatsu dealers, allowing them to publish information of their available used equipment on various sales channels, including their own individual dealer website and on used.komatsu.eu, with just a few clicks. This redesigned European Komatsu website is available via the desktop and as a mobile app. Equipment can be searched and filtered by potential buyers, by equipment type, manufacturer, hours/usage, location, price, etc. Additional data and multilingual marketing tools are included in the new package, helping Komatsu Europe and its dealers to better understand when and how to market their used equipment.

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Husqvarna acquires Wacker Neuson trowel and glazer series

Husqvarna Construction Products has purchased the concrete trowel product line from the Wacker Neuson Group in order to further strengthen Husqvarna's position in concrete floor treatment. The range will complement Husqvarna's current range and covers the entire process from soil compaction to polished concrete floors. "New steps we have taken within Husqvarna have been preceded by a carefully crafted global study that started already in 2015. The purpose of the study was to find the most attractive market segments in different regions. With the new products we can increase our presence in, among other things, rental," says Husqvarna's Henric Andersson.

Through the addition of the ride on trowels, Husqvarna now will be able to offer a complete offering for concrete coating and polishing and at the same time gain a market leading position for hand guided trowels. Through this, Husqvarna will continue to fully develop its recently launched 'Hipertrowel' concept by optimising the equipment, diamond tools and chemicals, to be at the forefront

of the increased demand for glosses and so forth for polishing concrete floors.

Production of the trowel range will be moved to Husqvarna's factory in Olathe, Kansas in the USA during the fourth quarter of 2019. At World of Concrete 2020, Husqvarna will also be launching a branded Husqvarna product range which possesses the same values and attributes of the valued and reliable Wacker products. The advantage for the customers, according to Husqvarna, is that the manufacturer will become a full solutions partner for concrete coating and polishing.

Husqvarna is known for creating innovative, integrated and customer focused solutions that focus on customer productivity, and will now extend this approach to its trowel line. As part of the agreement, Husqvarna will in parallel manufacture trowels on behalf of Wacker Neuson during 2020. This should, in the short term, not affect business, as Wacker Neuson will cease to offer these products, Husqvarna will then be able to supply and support these products under the Husqvarna brand.

www.husqvarnacp.com

REGISTRATIONS AND BOOKED EXHIBITION SPACE UP FOR SAMOTER 2020

The 31st SaMoTer will be held from the 21-25 March 2020. The last show, held in 2017, attracted 455 exhibitors from 25 countries, had 65,000m² of exhibition space and saw more than 84,000 visitors from 86 countries attend. Today, six months from opening, the response by exhibitors has already increased by 39% when compared to the previous show.

Among the many exhibitors confirmed for 2020 are Liebherr, Wacker Neuson, Bobcat, Doosan, Eurocomach, Hidromek, Hyundai, Komatsu, Sany, Takeuchi, Venieri and Yanmar. "The Liebherr Group, in the wake of positive growth in sales in Italy over the last 5 years has decided to attend SaMoTer again," said Christophe Sanchez, CEO at Liebherr Emtec Italia SpA. "We were keen to place our trust in the updated format of the event and Veronafiere's promotion campaign. We are confident that the 2020 edition will be successful and help us improve our visibility and thereby achieve the increasingly ambitious goals that the Liebherr Group has set itself for Italy."

The Liebherr view is also shared by other exhibitors. "After a few years of market instability and consequent restructuring of the sales network, Wacker Neuson has decided to attend SaMoTer," said Georg Jung, director of Wacker Neuson Italia. "It will be an opportunity for us to present the Wacker Neuson Group's innovations to sector operators, including the ranges of vehicles and solutions characterised as ever by cutting edge technology, high performance and above all important savings; qualities that can be summarised in two words: efficient machines."

Exhibition space sold so far is up by 66% compared to September 2016; a positive sign that reflects the parallel improvement in the Italian construction machinery market. The latest data available from the SaMoTer-Prometeia Observatory Italy stated that exports worth more than €1.5B are up 2% and imports amount to €512.2M showing an increase of 6.3%.

SaMoTer in 2020 is set to be even more expansive than ever before and includes other new features. As well as Asphaltica, the technology and solutions event for paving and road infrastructures jointly organised with SITEB (Italian Roads and Bitumen), the 31st SaMoTer will also see the debut of ICCX Southern Europe, a major event aimed at the prefabricated concrete sector.

New 1800H Power from Ronda

An important focal point for health and safety bodies is how to reduce dust nuisance, for example, when handling quartz or plaster dust. This has resulted in operators when coming into contact with such materials being recommended to use a class-H vacuum cleaner. This has led to Ronda launching the 1800H Power. This is a class-H vacuum cleaner with the same motor, motor control, vacuum power etc. as the Ronda 200H Power, but with a large multi tube filter which ensures optimum operating condi-

tions even with large amounts of fine dust. The machine is also equipped with a strong metal frame and large wheels which make it easier to move around.

The Ronda 1800H Power is available in two versions, one with a Longopac collection system, and one with collection in a metal container. The Ronda 1800H Power with Longopac has been developed for customers especially within the construction and demolition industries who require dust collecting into Longopac bags (endless plastic bags) as

this enables relatively dust free emptying. The Ronda 1800H Power with collection container enables vacuumed material to be collected in a metal container, which is released by lifting a handle, quickly and effectively. A disposable container is also delivered with the machine as a standard accessory which makes it possible to insert a plastic bag.

The previously available Ronda 1200H has been replaced by the 1800H Power and is therefore no longer available.





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DUST COLLECTORS
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ENVIRONMENT



New hybrid screen from Rubble Master

Approximately three years ago, company founder Manfred Schrefler added demolition work and mobile recycling to his areas of work.

Manfred Schrefler has been operating his RM 100GO! in Neuzeug near Steyr since Spring 2019. Recycling now accounts for around 30% of his turnover with the company also having its own waste management consultant. Depending on the application, a mobile impact crusher is combined with the RM HS5000M prescreen, or uses the crusher on its own. Schrefler can now process concrete, asphalt and C&D waste as well as natural stone, gravel and excavated material.

With hybrid technology, RM is going one step further and giving the user even more on site advantages and flexibility: "When we crush using electric power, we manage even lower noise levels, which gives us a great advantage on inner city construction sites," says Manfred Schrefler, founder and managing director of Manfred Schrefler GmbH. "With regard to emission regulations, with the RM 100GO! hybrid and its Tier 4 stage IV engine are among the best. Also, even though the new RM crusher is really great with its low fuel consumption, when I think about how diesel prices are developing compared to electricity, I can recycle more cheaply with an electric powered hybrid crusher."

The relationship between the two companies goes back to when Schrefler became an RM testing partner for the company's prototypes. That was how he came to start using the new RM MSC8500e hybrid screen that was launched at this year's bauma trade fair in Munich. With a feed material of 0-500mm gravel, the RM hybrid crusher crushes to 0-63 mm while the RM HS5000M and RM MSC8500e screen the fractions 0-4, 4-8, 8-16, 16-32 and 32-70mm.

When Manfred Schrefler founded his company in 2011 with his partner Hilde Mitterhauser, the couple were only planning a small enterprise. Business in Neuzeug in the Upper Austrian district of Steyr Land flourished to such an extent that Manfred Schrefler GmbH made a name for itself all over Upper Austria as a provider of transport, earthwork, crane operations and the supply of gravel. The company now has 70 staff and the fleet now consists of approximately 38 lorries and 25 construction machines such as various diggers, wheeled loaders and, most recently, an RM hybrid crusher and an RM prescreen.



KOMATSU EUROPE LAUNCHES GD675-7

Komatsu Europe has introduced the new GD675-7 motor grader, with an EU Stage V emission certified engine.

The 163kW Komatsu SAA6D107E-3 engine is EU Stage V certified, and comes with the ability to select 'Economy' or 'Power' mode, to match operating parameters to the application. Furthermore Komatsu's 'Diesel Particulate Filter' (KDPF) is now combined with a new integrated Komatsu 'Selective Catalytic Reduction' (SCR) system using AdBlue, to further reduce NOx emissions. More than 98% of KDPF regeneration is performed passively, with no action required and no interference in machine operation. Komatsu's industry

exclusive dual mode allows operators to benefit from the high travel speed and the reduced fuel consumption provided by a direct drive, and from the increased tractive effort and control of a torque converter.

The GD675-7 is supported by Komatsu 'Care', a maintenance program for Komatsu customers that comes standard with most new Komatsu EU Stage V construction machines, with maintenance extended to cover the SCR system. Komatsu's 'Komtrax' wireless telematics system provides machine metrics, including KDPF status and AdBlue level data, fuel consumption, plus performance information collected and sorted by operator ID.

New range of Indeco IMH mulching heads

Indeco's new IMH series of hydraulically driven, boom mounted mulching heads have been designed to turn an excavator or mini loader into a land clearing tool, helping to fell and clear vegetation, and reduce processing costs and times.

Tailored to fit a wide range of carriers from 5t to 50t, the IMH mulching heads feature Hardox components for lasting reliability and efficiency. Performing a wide variety of tasks, including tree felling, site preparation, invasive vegetation spe-

cies management, storm damage removal and clean up applications, an IMH mulching head (available also in the SG stump grinder version) can replace a whole crew of workers equipped with chippers and chainsaws. In addition to this clear advantage, the initial investment is low and maintenance costs are reduced.

IMH mulching heads provide an environmentally friendly alternative to slash and burn, as well as putting unwanted vegetation back into the ecosystem as mulch, which protects and fertilizes the soil.



Dustcontrol has launched the Tromb Edition 2019 which extends its Tromb series including Tromb pre-separator and DC Tromb Twin.

DC Tromb Edition 2019 has a more robust chassis, simplified filter change, storage box with a lid, improved cable suspension and a motor package which can be switched easily in service. The filter systems used in Dustcontrol's dust separators are built to meet H

classification, with Dustcontrol focusing on meeting modern safety demands and an ergonomic and flexible design. All units can be equipped with a plastic sack (C), longopac (L) or drum (A). Additionally it is possible to separate the DC Tromb Twin with the dust separator (DC Tromb) and the pre-separator (DCF Tromb) being easily disconnected for easy transport or for use separately.



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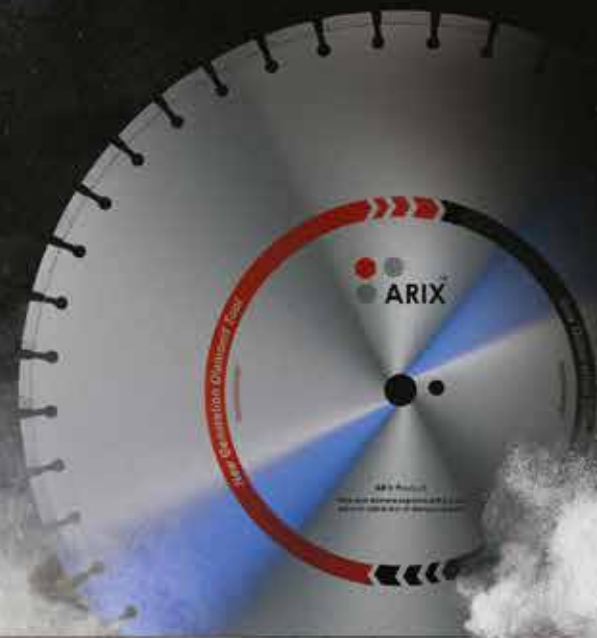


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MB Crusher MB-R500

Since spring 2019, an MB Crusher MB-R500 drum cutter has been working in creating the Aldilonda walkway located on the southern quay of Bastia's old port in Corsica. Work is now underway around the citadels' ramparts located on the seafront, presenting a complex and unique site, full of technical constraints, with the MB-R500 being chosen due to its compact size. Mounted on a Bobcat E85 excavator, it is the smallest model in MB's line of drum cutters, yet is extremely versatile. It may be accessorized with a dust suppressor, drum cover or cutting depth adjustment being but a few of the accessories that can be added in order to customise the unit to meet job requirements.

The compact nature of the drum cutter has proved essential as access to the work areas is constrained, and made even more complicated by the sea cliff and the importance of the area. Referred to on several occasions as 'acrobat work' by contractors, rocks located under the citadel are not homogeneous, resulting in operators never being quite sure what they would encounter at any given time, meaning that highly reliable equipment is necessary. In fact dealing with the rocks around the ramparts of the citadel has not presented a major problem for the MB-R500. Despite constrained access, and difficult working conditions, the excavator with its drum cutter have been able to make good progress on the path which is due to open in the first quarter of 2020.



Automated dust under control with CURT management software

CURT (Control Unit for Remote controlled Turbines) is EmiControls new monitoring and control system for dust and odour controller machinery. The software can be conveniently accessed by a PC and manages machines in real time, all with the simple click of a mouse. If certain operating processes normally generate dust and odours, the times and modes for automatic activation and deactivation of the system can be set based on several inputs. Abatement of dust and odour is no longer the responsibility of workers, instead occurring automatically with high levels of efficiency.

CURT reacts to the following inputs (each one is separately definable for each dust controller machine in the system): time control with calendar function and various atmospheric conditions, (including wind, rain, temperature, humidity). Ultrasound, photocell, dust sensor and electronic nose will be available in 2020. CURT provides the many advantages, including a

completely independent functioning of the system based on predefined parameters. This presents time savings and improved safety for operators thanks to remote control of the system through simply clicking a mouse. This means that economic dust and odour abatement is possible with high energy efficiency, whilst being adaptable to meet a variety of customer requirements. The software has clear graphics for simple software use, and it is possible to fit CURT to previously installed EmiControls dust controllers.

CURT effectively provides economic and efficient management of dust and odour control systems in terms of resources. Inputs and sensors can be expanded as desired, based on specific customer requirements. Once installed, CURT makes it possible for the user to save time and money as the system starts operating only when necessary. Future developments will see a smartphone app as well as connection to SCADA systems.

New DX300LC-7 30 t Stage V excavator from Doosan

Doosan has launched the company's first Stage V medium size crawler excavator, the new DX300LC-7. This new 30t model offers a combination of performance, operating features, fuel efficiency, reliability and durability.

The new DX300LC-7 Stage V excavator builds on the design of the previous Stage IV machine. It introduces enhancements in operator comfort, machine controllability, productivity, uptime and return on investment, with a focus on low fuel consumption, increased power, robustness and versatility. Key new features include a new touch enabled colour LCD gauge panel, providing more information via a larger screen, a stereo system integrated in the gauge panel, smart keyless start system (optional), improved interior cab design, and a variety of optional extras. As standard, 360° cameras provide full visibility around the excavator. The camera array comprises of a front camera, two side cameras and a rear camera.

To meet Stage V engine emission regulations, the new DX300LC-7 excavator is powered by the latest generation Doosan DL08 diesel engine, providing 202kW of power at 1,800 RPM. The DL08 engine offers a new solution to exceed Stage V regulations without exhaust gas recirculation, with this being combined with after

treatment technology to ensure minimal emissions. Thanks to the new technology, maintenance of the diesel particulate filter has been reduced, with no maintenance required until the machine has operated for 8,000h.

With the DX300LC-7, Doosan has attempted to ensure that productivity and environmental protection are compatible. The enhanced fuel efficiency of the engine in combination with a new hydraulic main valve and the new generation SPC3 smart power controls, provides increased fuel saving in the 'S' mode and 'P+' modes when compared to the previous generation machine. These features are two in a range of four power modes now available on the DX300LC-7, which help to simplify the operation of the new excavator. The operator is able to set the power mode (P+, P, S or E) in both one way and two way working modes.

The new DX300LC-7 model is factory installed with Doosan-Connect wireless fleet monitoring

system, which offers a web based fleet management solution for monitoring the performance and security of machines and promoting preventative maintenance. It is available as a standard feature on all new Doosan excavators (from 14t), all new Doosan wheel loaders and Doosan ADTs.







New generation of core drill motors **CUTTRONIX CM-10**

When power tools in general, and core drilling systems in particular first appeared and then evolved, it became apparent that the main goal was to simply replace muscle power with hydraulic, and subsequently, electrical power. Further improvements, until now, have not typically amounted to major qualitative or technological jumps, being largely incremental.

As electric motors evolved, power tool designers have looked for better motors which, more often than not, have been designed and produced by a third party. Where conventional motors fell short, the high frequency motors (requiring an external power pack) or hydraulic drives (with bulky pumps weighing hundreds of kg) were used. This branch of evolution reached its limit many years ago, with high end portable core drills today having actual output mechanical power below 6kW, reaching 8kW with a hydraulic drive, and a torque/RPM curve that is not always optimal for concrete drilling. The hydraulic systems also have low efficiency and possess a large overall weight.

In contrast, the Kaskod-Mtronix mechatronic approach to the Cuttronix drilling system design has from the beginning been to optimise the parameters of the entire system, including motor and gearbox. The design was the result of simultaneous engineering by one team of electrical, mechanical and software professionals. The team's goal was to create a machine allowing operation at precisely the speed and torque required for drilling hard and armoured concrete, which significantly increases productivity by shortening drilling time, even when using low end diamond segments. A majority of tasks can be performed with just one gearbox, but two more gearboxes are available to further optimise drilling of smaller and larger core diameters, making the tool truly universal. The rig also has been designed to improve

strength, reduce weight, increase the angle range and make it easier to use in the field.

The new generation of Cuttronix core drill motors are based on ISRCdrive technology, with a focus on high efficiency and performance, one and three phase operation, reliability, as well as safety and operator comfortability. In three phase mode, the motor continues to operate even when one of the phases is lost. The use of ISRCdrive motor technology with new advanced algorithms for motor control, enable lower overall system cost, an integrated motor, gearbox, and motor control

system in one package, and reach a very significant level of power density and efficiency. The 10kW rated output power (reaching to a peak of 15kW) of its drill motors are paired with durable, changeable spindle gearboxes (SG15, SG30 or SG60). This covers all the main areas of application for a core diameter range from 20mm to 1,000mm making the tool suitable for drilling masonry and all types of reinforced concrete.

The new extremely stable, robust and rigid drill rig with stackable column length is built for reliable professional use. It is made of high quality materials with advanced manufacturing technology and allows for easy rotation or replacement of the key parts. The motors feature robust, extruded aluminium housing with high ingress protection rating (IP66) for use in harsh environments and wide operating temperature range. Very durable contactless buttons and switches are made of metal and are dirt and dust proof. Integrated safety elements, such as a mechanical slip clutch for gearbox protection and electrical overvoltage and overload protection, keep users safe, the machine operational and increase the lifetime of the motor. Service alerts indicate upcoming maintenance and, therefore, increase the lifetime of the system and minimise the probability of failure. The ergonomic design ensures simple operation and handling.

Featuring high torque and high power output, the Cuttronix tools meet the requirements for reliable and efficient core drilling. Shorter drill times drastically increase productivity and therefore lead to a decrease in operating costs, keeping both drilling professionals and their customers happy. More innovative core drill models with a built in auto feed system and radio remote control are planned to be introduced in the first half of 2020.



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Conjet is now taking an important step forward in terms of improved product development and production, marketing and global sales of advanced hydrodemolition equipment. Since November 2019 Gulfstream Nordic Holdings AB (GNH) has entered into an agreement to acquire a majority shareholding in Conjet AB. This new partnership with GNH will fuel and accelerate the future growth for Conjet, the world's leading player in terms of hydrodemolition equipment. Read more on www.conjet.com.



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(From the left to the right) Clément Charpentier, Marketing Manager at Blastrac Europe, Adam Kasznia, Logistics Manager at Blastrac Poland and Patrick Bals, Graphic Designer at Blastrac Europe.



BLASTRAC'S

well-Polished operations

Poland has a long, rich and diverse history, full of struggle, internal turmoil and foreign betrayals. The country has found itself stuck 'between a rock and a hard place' so many times that one can only wonder at the Poles' undefeatable spirit. Having been literally rebuilt from the ashes after WWII, Poland's capital Warsaw is a symbol of the country's amazing resilience. Today Poland is a vibrant nation, with one of the fastest growing and diversified economies in Europe with a well-educated workforce and a strong private sector. That was why Blastrac – a Netherlands based trendsetter in surface preparation machinery – chose Poland as its global production base back in 2006. Andrei Bushmarin reports on his visit to Blastrac's Polish facilities.

Golina and Zagórow are two small countryside towns in the vicinity of Poznan. There is little remarkable about these Podunk burghs, but they do have the strategic advantage of being situated next to the A2 – one of Poland's most important thoroughfares that links Poznan and Warsaw. That, in no small part, impacted on Blastrac's choice of locations for its manufacturing and logistics facilities. The ready availability of skilled manpower, particularly in the field of metalworking, was another reason behind the company's decision.

An unlikely manufacturing hub

A 'global manufacturing hub' might sound a bit lofty for a small place like Golina, but the hub it truly is. The entire Blastrac range of machinery - shot blasters, grinders, scarifiers, floor scrapers, ride on multitask vehicles and dust collectors - are all produced at this 8,500m² facility. Since its establishment in 2006, the factory has undergone two expansions: in 2013 and 2016 when 1,500m² and 1,400m² buildings were added respectively. All parts and components - frames, bodies, welded components, electric boxes, etc. - are manufac-

tured at Golina from scratch. The plant is kitted out with all the latest equipment to ensure a full production cycle from raw materials to ready-made products. Laser cutting and CNC machines, bending presses, welding robots, shot blasting cabins and powder coating stations - in fact every piece of equipment a high end machine manufacturer might wish for is there. This also allows Blastrac to produce tailor made machines according to customers' specific requirements.

The factory is run by Błażej Szczesny, a professional engineer in his mid 30s, who has been working for Blastrac Poland for 11 years now. Having started as an engineering contractor, Błażej worked his way up to manager of the technical department firstly and then, a few years later, he became production manager. With



"The brand-new 3,000m² assembly and logistics centre in Zagórow was only commissioned in March this year".



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Blastrac Poland's original manufacturing facility in Golina.



"The Golina factory is run by Błażej Szczepny – a professional engineer in his mid 30s, who has been working for Blastrac Poland for 11 years".



Blastrac Poland's R&D department includes eight engineers.



"All parts and components are produced at Golina from scratch using the latest manufacturing equipment".



The Golina plant has three welding robots.



"...and 35 trained welders"



"The fabricated parts gets shot-blasted and powder-coated" before shipping to Zagórz for assembly".



A Blastrac machine on a job.

over a decade of experience under his belt, he has got every aspect of the Blastrac manufacturing process down cold. Błażej Szczepny oversees staff of some 125 persons that includes 35 trained welders and eight engineers responsible for research and development. The Golina plant works in two shifts, with annual production capacity varying as to the number of orders received. In 2018, it processed some 1,050t of steel (including 120t of the high quality manganese steel) and delivered some 110,000 man hours. With 5% growth projected for this year, lead times average at one week for standard products, whereas it takes about three to four weeks to deliver a customised machine.

Brand new assembly and logistics centre

Once all parts of a machine are fabricated, shot blasted

and powder coated, they get shipped to the neighbouring Zagórz facility for assembly. This brand new 3,000m² assembly and logistics centre was only commissioned in March this year. The facility sits on a 42,000m² plot of land, which can be used for further expansion. Zagórz was chosen based on a number of merits which other nearby locations lack. First of all, it benefits from an extensive power grid, which is vital for a logistics hub. Secondly, a slew of technical colleges are scattered around it, providing Blastrac with a steady stream of young educated professionals. And last but not least, comes the aforementioned proximity to the A2 highway.

All standard Blastrac machines are assembled at Zagórz by a 20 person team led by Adam Kasznia, another Blastrac Poland veteran. Adam began his career

with the company 12 years ago working as a logistics manager at Golina, and once the Zagórz facility was launched, he was the obvious choice as its manager. At the moment Zagórz's monthly capacity averages out at 150 standard machines. Some customised items also get pre-assembled there before shipping to Blastrac's European headquarters in Nieuwegein, the Netherlands, for final assembly. The Zagórz centre ships out finished products to the entire Blastrac Group, which currently includes Blastrac Europe, Blastrac US and Blastrac Asia. There are new solutions in the making too: the heavy duty BMC-335ELITE floor shaver is expected to hit the market already in the coming weeks. It will be followed by the launch of the new BMP-335ELITE scarifier and an extension of the floor scraper line in early 2020.

www.blastrac.eu



NEW CONCRETE FLOOR GRINDING AND POLISHING EQUIPMENT

This year has seen the launch of many new products for floor grinding and polishing. PDi Magazine's special feature presents the latest arrivals on the market.

Throughout this year PDi Magazine has reported on several new floor grinding and polishing equipment developments. For instance, HTC's new 'Start & Grind' series of smaller floor grinders and dust extractors; Scanmaskin's new 'World Series' floor grinder model 32; Samson 2618, Warrior Equipment's new 665mm four head grinder; Expander 1000, Klindex' floor grinder with autopilot and PG 510, Husqvarna's planetary floor grinder. As well as these, there is no shortage of even newer products arriving in the same field, which are now covered in our special feature.

New 'Scoots' from Au Tour du Beton

Au Tour du Beton's bush hammering Scoot makes it possible to transform a variable speed grinder into a bush hammering machine through installing the system on the grinder and screwing in the bush plate. The system is easy to install on an Ø180mm variable speed grinder, and is equipped with a front and back handle, with wheels providing stability, and the shroud having an outlet for connecting to a vacuum cleaner. The Scoot enables the use of Ø120mm or 155mm bush hammer plates depending on the desired finish, with Au Tour du Beton offering several models of hand held bush hammer plates with a lifetime guarantee. Similarly, the

stand-up Scoot enables the user to turn a variable speed grinder into a bush hammering machine for work where the user wants to stand upright through installing the system on the grinder and screwing in the plate. Lastly, the Scoot can turn a standard angle grinder or polisher into a planer, coming in three formats that fit most grinders. The user needs to set the two screws provided onto the grinder and then clip them into the two ball joints located at the front of the Scoot.

www.autourdubeton.com



New technology from Ashine

Ashine's R&D team has been working on new technology in both metal and resin bonds in the past year as well as new production facilities. Ashine's 'W-Metals' diamond technology cuts well on hard to extra hard floors, whilst its new resin bond technology has seen Ashine develop 'V8' pads which meet the industry's requirements for gloss and clarity. With the newly designed 'Quick-Start' segments, V8 pads are able to make the diamonds work faster and avoid deep irregular scratches at the start. With strong growth in the past five years, Ashine has also built its own 10,000m² production facility located close to its existing operation.

www.ashinediamondtools.com





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Several new Products from Blastrac

At bauma, Blastrac launched many new products including a new large scale ride on floor grinder, BMG-2200, which is designed for large horizontal surfaces. With two drive wheels fitted to the front and a swivel castor to the back, this makes the machine manoeuvrable both on and off jobsites. The operator sits on a seat with arm rests on both sides, along with joysticks, push buttons and a touch screen. The three powerful BMG-780PRO grinding heads produces maximum coverage and effective distribution of grinding pressure on each individual head, meaning each grinding head can be operated individually. The machine comes as standard with variable grinding speed, rotation direction and an independent suspension system.

The BMG-2200 also has variable grinding pressure, being designed with an integrated powerful dust collecting system with HEPA 14 filters, making the BMG-2200 virtually dust free according to OSHA regulations. This heavy duty dust collection system is equipped with an automatic pulse filter cleaning system, 'Longopac' system, and is provided as standard with a pre-separator.

The new multitask vehicle BMR-75D features an enhanced trouble free hydraulic drive system, offering

better productivity when cleaning and preparing concrete or steel surfaces. As the BMR-75D can fit several attachments, it gives the user greater flexibility to satisfy the needs of the job in hand, whether it is shot blasting or scarifying. The BMR-75D is also ideal for ship decks, parking garages, bridges, roads and warehouse floors. All Blastrac cyclone technology surface cleaning machines are engineered to deep clean outdoor surfaces efficiently and in an environmentally friendly way. A multi patented cleaning and recovery head cleans and removes build up with no damage to the surface. The cyclone cleaning head provides high velocity air movement for recovery of waste and water, with no runoff or spillage and no need for an external vacuum system.

Blastrac has also developed a new range of single phase dust collectors. With this new line Blastrac aims to meet customer expectations from an industrial dust collector, professional end user perspective. Equipped with an M-class or H-class certified Longopac bagging system, for small or big jobsites, the dust collector is designed to meet all needs. The new line aims to offer a complete range of small, powerful and high quality dust collectors, all coming equipped with a safe bagging system that protects the health of the operators and saves time on jobsites (Longopac system).

www.blastrac.com

'Start & Grind' extended with HTC 510

In January 2019, HTC launched an entirely new line of floor grinders and dust extractors with a focus on user



friendliness and ergonomics. This 'Start & Grind' line is now being complemented with a new grinder – the HTC 510 – bringing the total line up to four grinders and four dust extractors. The new HTC 510 is a powerful planetary grinder with three counter rotating grinding heads, making this a versatile grinder suitable for many different applications. It can be used for everything from stripping floors to grinding and polishing concrete, natural stone and wood. The grinder is available both in a single phase and three phase model, from 2.2kW up to 4.0kW, featuring a grinding width of 515mm. A major advantage of the HTC 510 is the machine's grinding head, which is hermetically sealed, making it entirely dust proof. This provides unparalleled protection from dust and moisture, and significantly increases the service life of the enclosed components. Just as with the other grinders in the line, the HTC 510 chassis can be easily detached (and folded up) from the motor prior to transport. It is effectively a robust, strong, versatile and ergonomic entry level machine for professional users who want to quickly and efficiently grind small to medium sized areas.

www.htc.com

Floor stripper from Janser

Janser's new 'Junior' ride on model weighs 420kg and uses an in house developed drive design which allows the front plate and tools to be manually positioned during operation. Thanks to its adjustable angle the blade can be set to a flatter or steeper angle under the floor covering. The forward leaning construction puts the centre of gravity under the plate itself. At the core of the Junior is the construction of the motor and hydraulic drive with which the front tool can also be controlled. If the base plate is lowered to its maximum, the blade can reach further under the floor covering which is





especially suited for the removal of elastic coverings. The Junior's base angle and inclination angle, as well as the positioning of the front plate, can be adjusted via a lever near the seat during operation.

With its slim measurements of 1,300mm x 600mm x 1,000mm, the Junior can be transported in smaller vehicles. Operation is facilitated via a power cable which is kept at a safe distance to the wheels or kept above the machine in narrow spaces with the help of a guide rail. The machine features a reverse warning system and a seat switch which turns the machine off automatically as soon as the operator leaves the seat. Hearing protection is not necessary when using the machine as the motor and the hydraulic system operate silently.

www.janser.com

Machines for grooving and grinding from Lissmac

Lissmac has released the 'Pavement Groover & Grinder', a machine for universal surface preparation. It can be used for surface grinding and acoustic grinding, grooving and bump cutting. It has a saw blade diameter of 485/350mm including modification kit and a grinding width of 1,270mm. The Stage Tier 4 final machine features mechanical gearshift with hydraulic friction clutch, drive type via two pairs of gears, a feed rate of

max 72 m/min (idle) and a hydraulic drive turbine. The machine weighs 21t with a maximum capacity of 23t, is diesel driven and is operated with a joystick.

Lissmac's 'Grooving Unit' has a sawblade diameter of 230-300mm and a cutting depth 25-60mm. The thickness of the saw blade core is 1.8mm, segment thickness is 4mm and a shaft diameter of 60mm. The dimensions of the machine (L/W/H) are 1,530mm x 900mm x 640mm and weighs 380 kg. The Grooving Unit can be used with Lissmac's 'Unicut' 600, a fully hydraulic precision floor saw which features multifunctional joystick, electrohydraulic steering system and an all-wheel drive which distributes power to all four wheels during operation, among other features.

www.lissmac.com

Samedia's cup wheel series

Samedia has launched a cup wheel series of 11 products for its three concrete grinders (diameter 125mm or 180mm), with four belonging to the 'Shoxx' range and seven to

the 'Master' range. The company has also released a new concrete grinder, CGR 530, which runs at 1.9kW at 8,200 rpm and weighs only 4.1kg. It uses 125mm cup wheels, can grind to edges in small places and features both height adjustment and an adapter for dust extraction.

www.samedia.com

Schwaborn's new grinding machines

Schwaborn's new DSM 250 edge grinding machine features a swivelling grinding head. With variable speed control and water tank, the new DSM 250S enables polishing of design concrete or terrazzo floors by wet grinding. In addition, with the DSM 250P, Schwaborn has launched a gasoline engine powered version optimised for the removal of lane markings and parking marks, as well as for smaller outdoor grinding jobs, independent of any local power supply.

Also new from Schwaborn is the DSM 450, a grinding machine for medium sized areas up to (approx.) 500 m². The completely revised model family is





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now available with or without a water tank and as a 230V or 400V variant. The machine is equipped with a step less speed regulator, which makes it possible to grind and design down to the finished design floor. The DSM 450 allows grinding and polishing of concrete, natural stone, terrazzo, screed and asphalt, the removal of adhesives and coatings as well as putties, and regulates bumps efficiently and ergonomically. New abrasion resistant wheels leave no traces and the ergonomic guide handle makes it easier to control and maneuver the machine. In addition, it is quickly dismantled for ease of transport.

www.schwamborn.com

Two new grinders from Superabrasive

Superabrasive has developed two new remote controlled grinders, L25REU (655mm, 7.5kW, 3 phase, 380-400V, 15 Amp) and L32REU (814mm, 15kW, 3 phase, 380-400V, 32 Amp), both part of the 'Lavina Elite' series. They feature a digital control panel or HMI that provides operating information on power load and voltage supply, machine hours, hours per day, tool holder speed / RPM. As an option, users may choose setting with tool input, speed feed rate, water supply and lights activation, maintenance reminders, password activation and shut off, as well as a menu in different languages. The remote control is light, precise and easy to use, with integrated mapping on the offset and various functions. The grind-

ers can be used manually and in self-propelled mode, and are equipped with all the new Lavina Elite features. These comprise of dust proof grinding head, integrated weights, misting system, heavy duty water pump, floating skirt with a flexible brush, adjustable LED lights, a phone charging station and cup holder. The remote controlled grinders also have built in electrical protection against excessive voltage, large non marking tyres and a third wheel for easy transportation.

www.superabrasive.com

Wolff Tools' 'BiTurbo' stripper for floor coverings

The new 'BiTurbo' stripper is designed for removing all types of elastic floor coverings, including parquet. It features high operating comfort, a variable speed of 0-27 m/min, blade adjustment for different floorings and working conditions, and easy transport management as additional weights can be removed. The machine can be divided in the middle, has a handle height that can be adjusted in three steps and easily accessible controls. The stripper has a supply voltage of 230V, 50Hz, a power consumption percussion of 1.5kW and a power input drive of 1.5kW. The number of strokes reaches 3,000 beats/min, blade width is 350mm, weighs approximately 260kg (can be dismantled) and a work rate of approximately 100-150 m²/h.

www.wolff-tools.com



'Rox metal bond' diamond series from Worx+

The new Worx+ 'Rox metal bond' diamond series is designed with integrated 'Consistent Grinding Technology' (CGT). It delivers high output for heavy duty surface preparation and stock removal through high end polishing, as well as grinding stage specific performance, features bonds of various types and for various purposes. One features Worx+ 'Zig Zag' technology, aggressive shape, multiple leading edges for high speed, and enhanced heat dispersion and reduced glazing. It is available in soft, medium, hard, very hard or super hard bonds (16/720 and 30/40 grit segments). The second bond features a curved design which delivers a smoother surface profile and is available in soft, medium and hard (50/60 and 60/80 grit). The third bond features industry first integrated power grouting segments and a segment geometry that maximises surface profile and refinement. The proprietary diamond grit formulation develops dense grout while creating optimal dust particle sizes for packing. The third bond is available in soft and medium (shapes available in 120/140 and 160/180 grit). All in all, the new Rox range features proprietary shapes and grit formulations, application tailored segment shapes and tool longevity. The bonds are field tested and performance validated, providing a solution for surface preparation, concrete polishing, terrazzo and natural stone and for wet / dry use.

www.totallyworks.com



Go India Go!

Key people from the Indian infrastructure, demolition and recycling industries are set to 'kick-off' India's first association for demolition, recycling and remediation at its first ever convention, Demtech India 2019.

When this article was being written, it was only a couple of weeks to go before India's ever first demolition, recycling and remediation convention to be held, with Demtech India 2019 taking place at the Sahara Star Hotel in Mumbai on 13 November, 2019. During the event the first ever Indian demolition association IDA, will also be formally launched.

Great initiative and great support

The decision to start IDA and also organise its first conference and convention was taken as late as April this year. Mr Mohan Ramanathan, a long time player in the Indian market, had for many years desired to found an Indian association for demolition, recycling, concrete cutting and remediation contractors. However, the formation of such an organisation would not have been possible to achieve without the support of a group of professional manufacturers and suppliers, including PDi Magazine. The latter has the potential to use its different channels to spread the word internationally about the event and in a few weeks, several international manufacturers announced their interest in sponsoring the event.

The 'Headline' sponsor for Demtech is Volvo Construction Equipment, with the 'Associate' sponsors being Epiroc, Hilti, Aquajet Systems, Brokk

and Sennebogen. 'Affiliate' sponsors are Husqvarna, Edifice, Pentrunder, Fortress by Shearcore, Kemroc, Kobelco and Tyrolit. Directly connected to the conference will be a small exhibition area, and as well as the sponsors of the event, additional exhibitors will be represented, including Rotar International, Trevi Benne, Demarec, Schwing Stetter, Hydrotek, Philtec E&C, SDT Sanwa and Indo-Spark.

Impressive conference programme

The conference programme for the day is both packed and impressive. The conference will be opened at 10am by the chief guest from the Government of India, Minister of Road Transport & Highways, Shri. Nitin Jairam Gadkari. He is accompanied by other guests of honour, including, and also from the Government of India, Usha Batra, special director (WR) Central Public Works Department and Dr. Sheilesh Kr. Agrawal, executive director BMTPC. Following the opening addresses there will be welcoming speeches from Mohan Ramanathan, IDA initiator and Jan Hermansson, editor in chief, PDi Magazine.

The conference will then continue with the keynote speaker Dr. Gaurav Bhatiani, chief operating officer IL & FS Ltd. Bhatiani, who will speak on the subject: 'Indian Economy and its growth path for the next decade'. Before a tea break, Prashant Bharadwaj,

head of Volvo CE business will then make a speech followed by Gordon Hambach, marketing manager of Epiroc. Dr. Martin Goedickemeier and Sheikh Kaamil from Hilti will then present a talk on the subject: 'Hilti, controlled demolition using advance diamond technology'. This will be continued by a speech from Brokk given by the company's sales manager, Joakim Furtenback, titled: 'Brokk, safe and efficient demolition using remote controlled demolition robots'.

Another sponsor giving a speech will be Aquajet Systems given by key account manager Bjarne Axelson, who will talk on the advantages with using hydrodemolition equipment for the removal of damaged concrete. Sennebogen's Ratnesh K Singh will present on the subject of demolition and recycling equipment from Sennebogen. Dr Shailesh Kr. Agrawal, Executive Director of BMTPC, Government of India will hold an invitee talk. The day will then proceed with three interesting presentations dealing with Indian case studies. Uttkarsh Mehta, part owner of the Indian demolition contractor firm Edifice, will make a presentation on the demolition of the Mahatma Gandhi Sethu Bridge. With the extension of the Mumbai subway system, Sunilkumar Vishwakarma, head of planning for TATA projects, will talk about making cross passages in the Mumbai Metro line 3. These speeches will be followed by another case



study presentation delivered by Sanjay Phadke. Piyush Gandhi, engineer at Genesis in Mumbai, will hold a speech concerning handling, recycling and remediation of hazardous waste after demolition. After this there will be a lunch break of about one hour. The day's second invitee talk will be held by William Sinclair, manager of the demolition contractor Safedem, Ltd and former president of EDA.

The conference day then continues with more case study presentations, with the first being given by Youssef Hallak from LT Diamond Drilling, who will discuss the decommissioning of a nuclear power plant in Romania using concrete sawing and drilling methods and remote controlled robots. Dr. Vimal Kumar from C-Farm in India will then talk about 2016 C&D waste management rules and their impact.

The day will then continue with speeches from Sandeep Ingale from the European Demolition Association (EDA) and a speech from the president of the

International Concrete Sawers & Drillers Association (IACDS), Michael Findeis. The sessions will end with a panel discussion moderated by Jan Hermansson, editor in chief for PDi Magazine, Dr. K. N. Sathyanarayana, Professor N. Gopalakrishnan, Sheik Kaamil, Sriram Matte from IDA and Dimitrov Krishnan from Volvo CE.

Meet the suppliers

In order to facilitate exhibition networking the show room itself will be open during the entire conference. Between 16.10hrs and 17.10hrs a special networking event will be held there, where tea and other refreshments will be served.

Gala dinner and IDA inauguration

After the long conference day there will be a break until 19.00hrs when a gala dinner will start in the hotel. The evening celebrations will begin with a welcome and the official inauguration of the IDA – Indian Demolition

Association. Speeches will be made by IACDS president Michael Findeis, a representative from EDA, as well as other industry representatives. These will be continued with welcoming speeches, including one from PDi Magazine. The evening will continue with a gala dinner. A detailed agenda for the day can be found on the conference website.

Demtech India 2019, and the inauguration of India's first demolition association, will be an important milestone, not only for the Indian demolition industry, but also marking when India officially becomes established in the international demolition arena. PDi Magazine would like to express its sincere gratitude to Mohan Ramanathan and the whole IDA organisation for having been given the opportunity to be a part of this great moment and event. PDi Magazine wishes the endeavour well, and looks forward to working with the IDA.

www.demtech.in



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SOUTH AFRICA'S DEMOLITION SECTOR TAKES A POUNDING BUT SHOWS

cause for optimism

Every five years PDi takes a look at the South African demolition industry, the leading sector in Africa. Our Africa editor, Kevin Mayhew, takes a look at recent developments.

The last five years has seen South Africa and indeed southern Africa as a whole, experience a period of economic and political turmoil. The country enjoyed positive growth from 1994 when its first free democratic elections took place, with a 14 year 'golden summer' of optimism ensuing. This however did not last, with the country experiencing economic and political disquiet which coinciding with the rule of the ousted former president, Jacob Zuma. This left the economy reeling and current president, Cyril Ramaphosa, is trying desperately to steady a ship which is still faced by a myriad of problems.

A diminished construction sector

In South Africa, political vagaries are essentially economic ones, as they have an impact on an economy that is driven by a few sectors, many of which impact heavily on the demolition industry. These include government departments, state owned enterprises and mining and construction with their attendant feeder industries. The government has a major impact and, in many cases, it is a key driver of all industry sectors, including infrastructure development in line with social programmes to meet the country's burgeoning needs.

Systemic within the country was said to be a culture of 'state capture' which was unveiled primarily by the media and the ex-Public Protector of South Africa, Thuli Madonsela, who actually first coined the term. Now the subject of an investigation by a dedicated Commission of Inquiry, 'state capture' was allegedly perpetrated by a cabal of local politicians and businesses that are said to

have enjoyed assistance from a variety of multinationals and service providers. This and other factors saw a general drying up of investment in infrastructure, despite the government at national and provincial level making commitments to investment in capital projects for transport, housing, health and other primary social and economic necessities. The demolition sector suffered as, generally, few of these came to fruition.

To understand the full impact of how the country's once powerful construction sector has diminished, and the corresponding effect on the demolition industry, the president of Consulting Engineers South Africa, Neresh Pather, says this is a clear indicator of the state of health of the country's economy. "The government is spending R300B (€19B approx.) a year on infrastructure but it remains in a dire state. The survival of the construction sector is wholly dependent on this money being spent effectively, but this is not happening. Much of it is being wasted on bad planning and a flawed procurement system."



Highlighting the above comments, in February this year one of the country's major diversified construction groups, Group Five, filed for bankruptcy. Reuters attributed this to, "an industry squeezed by stagnant economic growth and a pullback in infrastructure spending by government and the private sector". Only a year before the Group Five collapse another large construction group, Basil Read, went into business rescue, having failed to negotiate the economic headwinds.

Strong state sector in decline

South Africa has over 30 State Owned Enterprises (SOEs), which are generally a carryover from the country's colonial past and apartheid era government. They operated to facilitate key areas of the economy





ranging from electricity, food supply, oil provision and transport to arms manufacture in order to sustain economic growth that boomed in the post war era. Many of these SOEs are now in varying states of financial woe. For instance electricity supplier, Eskom, has required financial bailouts from the government. Eskom and its construction of two new coal based power stations are at the heart of the 'state capture' inquiry along with the logistics giant Transnet and its subsidiaries. The latter have been major influencers within the demolition sector but are now essentially inert.

The SOEs' maintenance and expansion plans gave significant impetus to the demolition sector in the past. An analysis however of the latest results of SOEs by South Africa's Moneyweb news service in May this year concluded that 13 of the SOEs performed so dismally that they dwarfed the positive results of the rest.

The mining industry, along with agriculture, has traditionally been one of the backbones of the country's economy since the discovery of diamonds and gold in the mid-19th century. It has also suffered, and has not been able to fill the gap made by the declining state sector, despite being the beneficiary of increased global demand for commodities in the 1990s. However, this demand has reduced as the latter day development powerhouses, China and India, curtailed demand following the international financial meltdown of 2008, although this fortunately appears to be changing positively.

A drift towards potential land expropriation without compensation has also had a negative effect on foreign investment in new or existing capital projects. This issue is a major factor in South Africa dropping off the radar for investors overseas. International surveys show that SA dropped from the 28th country in the World Economic Forum to 61st in 2017. The IMD Global Ranking saw the country go from 37th to 53rd out of 63 countries; all essentially during the tenure of ex-president Jacob Zuma.

South African

demolition sector looks north for pickings

Despite all these factors and events, the South African

demolition industry is undoubtedly the continent's dominant player, but is under enormous pressure. The sector's main players are still able to compete with the best in the world and, indeed, do win tenders both on the continent and even further afield against foreign counterparts. In fact it is beyond South Africa's borders that the sector has been forced to look, particularly in other parts of the continent where its expertise and low cost of operations have made it a real competitor in difficult conditions. The managing director of Jet Demolition, Joe Brinkmann, stated: "Africa is a growth area and we will undertake the bigger jobs, whether it be mechanical or by explosives. Our focus is not on the developed countries, but African and other less developed nations which do not have a local industry that can support the challenges posed by large, complicated projects."

Concurring with this is explosives specialist for Olifantsfontein based Wreckers Dismantling, Kyle Perkin. "We are well geared to operate in Africa as a whole, as it is essentially our back yard. We understand its dynamics and difficulties and South Africa's skills base and capacity put us at an advantage. It is not an easy environment, but demolition by its nature, presents unique challenges in every project you undertake, so we merely adjust to the local environment and do the job."

'Heritage creep'

Well intentioned South African architectural and historical heritage preservation legislation is impacting on property development and thus on the demolition sector, with its impact set to become more intense each year. The National Heritage Resources Act 25 of 1999 requires the approval of heritage authorities before properties 60 years or older may be destroyed, damaged,

defaced, excavated, altered, removed from their original position, subdivided or their planning status changed.

Two examples of the legislation's impact have been highlighted by PDi in the past five years. Late last year a South African sporting body decided to remove four concrete towers for the floodlights at a cricket stadium. The towers were of no practical use having been replaced with steel alternatives some time before, but posed a danger of collapse due to structural decay in a mining intense area with attendant potential earth tremors. The five second demolition was undertaken on the towers only once a clearance had been given for their removal by relevant heritage authorities, in keeping with the law regarding structures older than 60 years.

Two years earlier, the sport of rugby presented a different challenge at the famous Loftus Versfeld Stadium in the country's capital Pretoria (also known as Tshwane). Change to the area surrounding the stadium was approved but one building, which served as a restaurant and bar on match days, had to be preserved. It was dismantled tile by tile, brick by brick, truss by truss and stored in a safe place to be reassembled for the rugby faithful and future users of the newly developed stadium surroundings called Loftus Park.

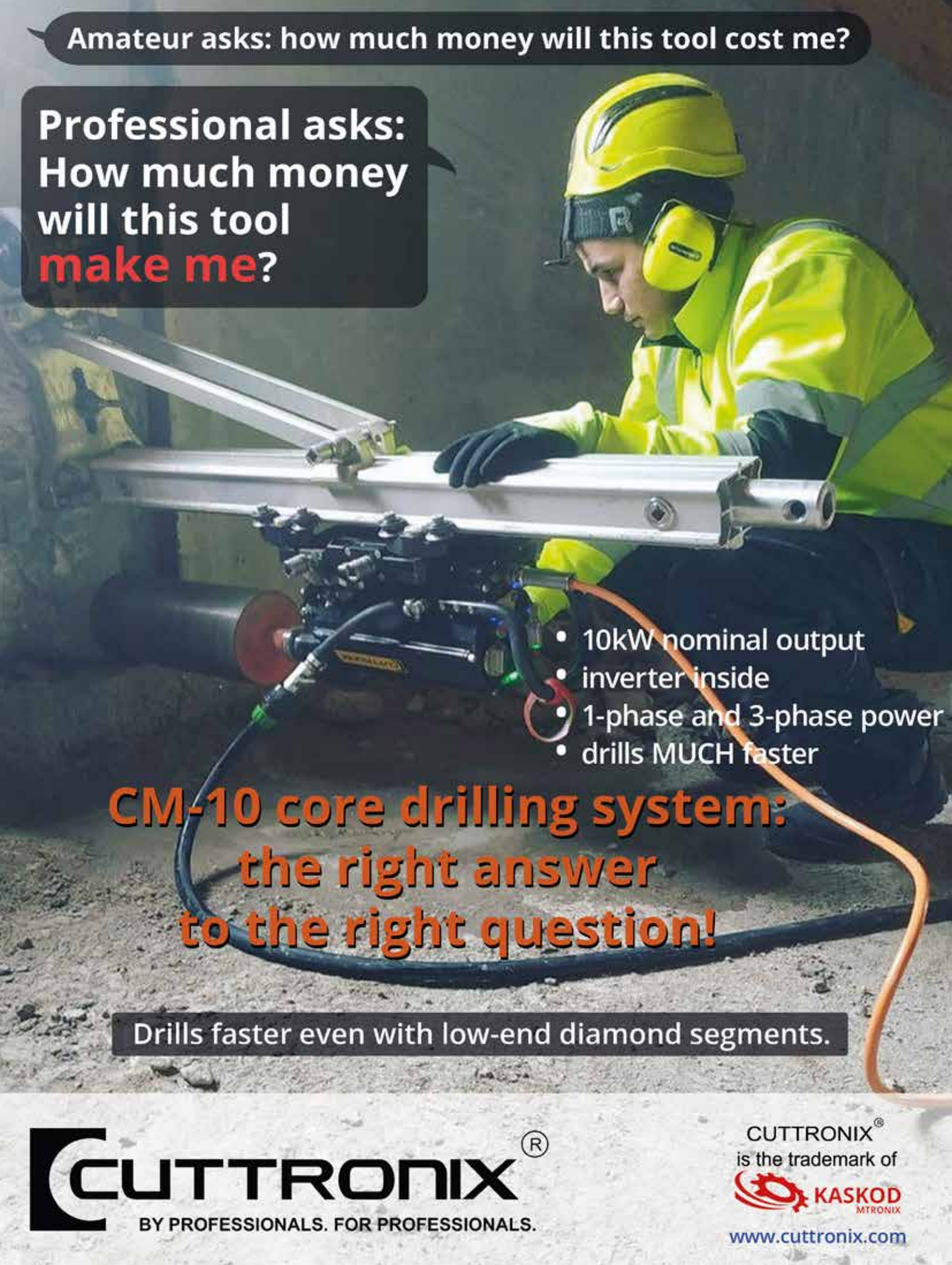
An unintended consequence of the legislation is that each year more and more properties that have no real architectural significance, must be cleared for demolition by local, provincial or national heritage overseers. This presents the real possibility of authorities finding themselves overwhelmed by the sheer volume and forced to put a brake on much needed housing or commercial property development.

Healthier inner city opportunities

Urban areas are faced by the problem of decaying, abandoned buildings, generally occupied by people seeking work. Each city initiates efforts to make them fit for habitation, which in most cases requires demolition. Privately, demolition industry players claim that some of the buildings are almost too dangerous to venture into

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and are in imminent danger of collapse. A shortage of finance has made it impossible for the city authorities to employ the services of companies with the skills and experience to effect necessary demolition.

However, the mayor of the country's principal financial city, Herman Mashaba, talked recently of seeing cranes across inner Johannesburg within six to eight months when construction worth about €1.2B is set to begin. Initially 24 developments consisting of 81 properties will be undertaken in joint private and public sector partnerships. "This is indeed the biggest number of properties awarded simultaneously in the city's history. This is also the largest number of mixed use private sector developments focusing on residential and student accommodation being facilitated by the city at once," Mashaba said.

In the principal port city of Durban there are similar projects planned, with two major private sector property regeneration players, Propertuity and Urban Lime, at the forefront. Urban Lime's Nadeem Shahid, explains: "Our role is regeneration. We take existing buildings and restore them to make them fit for occupation, either residential or as commercial space. There is a demolition element in making them fit for purpose, but we are not in the space to tear down buildings that might appear derelict or to make way for new construction."

'Green demolition' takes root

Another development affecting South Africa's demolition industry is the increasing need for 'green demolition'. The chief executive officer of local consultants and service providers, Eco Match, Craig Allen, explains some of the challenges and opportunities being faced. "We've (South Africa) been very fortunate as we haven't had to re-use, recycle or reduce demolition waste as we've always had the luxury of space in the half century or so since demolition became an established industry. It was demolish, make a big stockpile, salvage a bit of steel, load the rest onto trucks, dump it at the landfill and forget about it.

"In the past five years or so cost, and the reduction of disposal space as landfills close, are starting to force people to adopt alternative methods. The green industry as a whole is very much an emerging industry in South Africa. Contractors, consulting engineers, consultants and the like are all becoming aware of it, but there remains a big gap between awareness and implementation on the ground."



Craig also explains the present options on offer for those involved in demolition. "We (Eco Match) offer a two pronged approach. The first is to come onto your site where we process the entire stockpile from the demolition activity. The client will take out the rebar and anything else that's of value. We crush and screen the balance of the concrete waste which is then used as product in the new green building. Whether it's for roads, or fill material, they get green credits for scoring a rating for using this method.

"The other approach is to operate a landfill site. In the past, landfills would accept all waste which went to the face of the landfill, got turned, capped and forgotten about. For the past two years, any construction and demolition waste that has come into that landfill has been diverted to a laydown area. We crush and screen it to produce a level G5 or G6 aggregate material which we supply back into the construction sector as a recycled product. There is an appetite to buy recycled product because one can claim points as well for using recycled material, instead of natural aggregate that's been mined from a quarry. That two pronged approach is what we have offered in the past couple of years. The challenge is to figure out how to get the industry to adopt these approaches.

"The South African (points) system is based on the Australian one of credit rating which is administered by the Green Building Council of South Africa (GBCSA), the body which facilitates and develops policy. It applies point allocations and is essentially the authority on any green building. It works on a points system, where you get a hundred points per build. For example, ten of the hundred points would be dedicated to building materials. So if you use 100% recycled material to develop your concrete, in your structural pillars, on your floors, on your walls etc. you get ten points. Do nothing and you get naught points. Consultants help them to maximise points, in many cases working with international associates."

A problem with the system is that there is little imperative for any developer to use it. "Unfortunately it is not legislated. You will find that it's really only flagship projects where developers adopt a totally green building, recycled approach to waste because they want the kudos, the marketing and all of that. There are a handful, probably about 50 or so fully concentrated



large scale developments that focus entirely on that approach in South Africa."

Another difficulty Craig has experienced is that contractors and developers who lack the experience and know how to implement 'green demolition' have proved averse to seeking advice and assistance. "You are not paying to be compliant; you are paying for your consultants to assess you. Their time costs as they charge by the hour. However, you are paying more for alternatives in terms of sourcing material, buying bulbs, or sourcing different contractors to handle your waste with recycling in mind. It can actually be cheaper because you can reuse material. You are saving on disposal costs, on transport, but you are also saving on having to source, new natural aggregate into your development. If we get our price right, we can save you money.

"The big players understand the root cause of the problem that we are dealing with and are listening and learning. There is also a lot of resistance from the old, established (cement) engineers. They query the quality of recycled product because for decades they have been ordering concrete klip from the quarry down the road, so why change now? Slowly there is a shift in the industry." Finally Craig explains, and shares his optimistic view of the future for the demolition industry in South Africa. "An ambitious goal is zero demolition waste to landfill; not only concrete, but everything. It is achievable, initially at a premium cost. As the industry becomes more competitive, pricing will adjust. I believe that the goal is certainly achievable. It's the responsible way to do things."



Jet Demolition flies flag

Jet Demolition flew the flag high for South African demolition by securing back-to-back wins at the World Demolition Awards in 2017 and 2018. The 2017 award was in the Explosives Demolition Category, for an implosion in the country's capital Pretoria (also known as Tshwane). Last year, Jet Demolition received the World Demolition Award in the Heavy Industrial Category, for work done on the Duvha Power Station in South Africa's Mpumalanga province. Jet Demolition's managing director, Joe Brinkmann (right), is seen receiving the 2018 award hosted at the Aviva Stadium in Ireland, December 2018.





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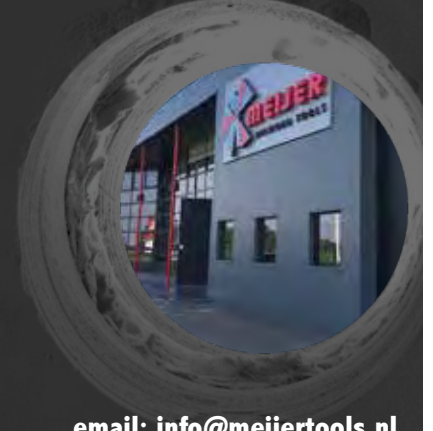
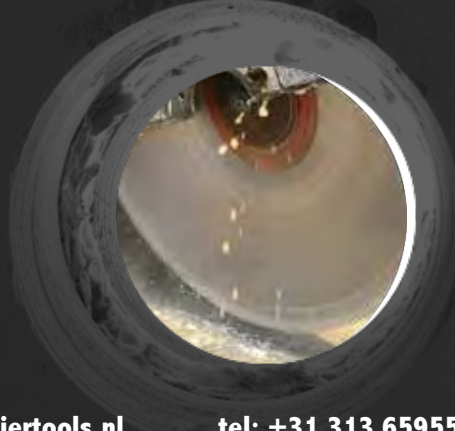
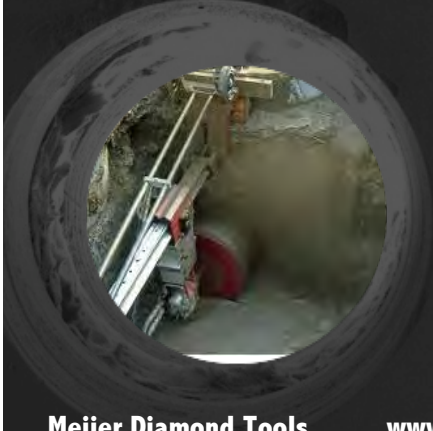
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The demolition industry is in rather high gear in Sweden despite talks about an increasing recession. There is still considerable need for housing and the trend is not expected to decline in the next year. As long as we live with this situation in the construction market, there is little risk a residential bubble will occur, which is good news for the forthcoming show DEMCON 2020.

"With the situation in the Scandinavian construction market, I think DEMCON 2020

will be at the right time. Our contractors have still a lot to do but competition is always tough. It is important that 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. A good thing with the demolition sector though is that there is always something to do. If the constructions cease there is always renovation, reconstruction and

extension jobs to fall back on," said DEMCON project manager Jan Hermansson.

8th edition of DEMCON

DEMCON 2020, to be held in the suburb of Bredden north of Stockholm, will be the 8th 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, hydromolition and more. "During the nearly 30 years we have worked 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 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 2020 will be held on 24-25 September and there is considerable interest and many exhibitors have already booked their space," said Hermansson. There will be two show days at the Infra Show in Bredden with an indoor and outdoor area as usual. In the evening of 24 September the Swedish demolition industry will hold

its own event, The DEMCON dinner party. The winners of the Swedish Demolition 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 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.



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 Scandic Infracity Ball room on 24 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.

Det Svenska Demoleringspriset

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 Hydromolition 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.

SCOP PUBLISHING





WASTE NO TIME WITH NEW PRODUCTS FOR

efficient waste handling

Waste handling is a crucial aspect of many demolition and construction jobs, especially given the global debate on circularity and climate change. In this special feature, PDi Magazine takes a look at the latest products for the efficient handling of waste.

CDE, the 'wet' processing equipment manufacturer, has announced enhancements to its 'AggMax' modular scrubbing and classification system which follows on from the launch of the new AggMax 160. The equipment is engineered to operate in tough conditions to maximise product yield from the most abrasive of feedstocks. The design incorporates five processes on a compact portable chassis: pre-screening, scrubbing/attrition, sizing, contaminants removal and stockpiling. It can process construction, demolition and excavation waste material containing large quantities of organic and other inert physical contaminants into materials suitable for reuse in many applications.

The new AggMax 160 offers a solution tailored for C&D waste operations in the 100-150t/h range.



It incorporates 'Infinity Screen' technology for greater screening capability and reduced power consumption. The spiral alignment of its paddles reduces the 'shock' of intermitting loads on the gearbox, motor and bearings, ensuring consistent material loading. The paddle shape ensures attrition of even the heaviest clay bound feed material. The AggMax 160 features advanced transfer point technology, 'Infinity' chutes with premium wear liners and indicators, upgraded 'Hydro-Flux' technology with density separation for contaminants, as well as walkways for accessibility that also minimise inspection and maintenance times.

Doppstadt's new AK 640 K fine shredder

Doppstadt has launched its AK series incorporating the latest engine and exhaust emission technology to meet upcoming EU Stage V emissions legislation. All new machines can be easily recognised by the e5 logo, which stands for standard environmental and climate protection, and include technical innovations such as a drive system that ensures optimised supply of material. Cooling capacity is higher than found with the previous model and the cooler control system is more effective, with the new models also having been optimised for maintenance and wear resistance. Hence the rear belt can be lowered almost completely to the ground and the flail tips are easy to replace thanks to 'Dopp-Lock' technology.

The AK 640 K fine shredder is equipped with stainless steel piping for the exhaust system, with the

exhaust after treatment system being thermally shielded by integral insulation. MTU's optimised diesel engine offers additional power (20kW/200Nm) and has a rated output of 480kW complying with the Stage V standard for non-road vehicles. It utilises 3D rear baskets developed for processing waste wood, ensuring that mulch produced is a homogeneous end product of high quality. The screen sizes range between 80mm to 300mm enabling the AK 640 K to be adapted for different requirements. The off road version can be used when other shredders aren't able to find secure footing, with off road capability being required whenever a mobile shredder is deployed in close proximity to areas being cleared. For maximum flexibility, Doppstadt recommends opting for a chassis with considerably more ground clearance.



Photo: Doppstadt.



JCB's updated 'Wastemaster' wheeled loaders

JCB has updated its 457, 437 and 427 Wastemaster wheeled loading shovels to meet the upcoming EU Stage V emissions legislation. The new Stage V Wastemasters' feature Cummins diesel engines that deliver an increase in engine power and a reduction in emissions and fuel consumption. The 457 has had its power output boosted from 192kW to 210kW, while the 437 goes from 136kW to 145kW and the 427 delivers 123kW. The output of the engines can be reduced thanks to two power modes, activated by the operator from the cab. In addition, the machines are supplied as standard with a five speed 'Powershift' transmission in place of the previous four speed unit.

Fuel consumption is cut since the loaders are able to operate both in low power mode and with optimised efficiency through the use of better spaced transmission ratios. The Stage V 457, for example, is up to 10% more fuel efficient than the model it replaces. The machines' forward speed can be restricted if required, while other safety options include a roof mounted forward facing camera; proximity sensors that alert the operator to any obstructions to the rear of the loader; and seat belt beacons that flash when the operator seat belt is not engaged. All Wastemaster wheeled loaders are offered with a choice of non-traction or semi-solid tyres. Extensive guarding has been fitted, such as underbelly protection for the transmission and driveline, to ensure that machine uptime is maximised.

Keestrack's K5/K5e scalper series

With a weight of around 30t, Keestrack's six model K5/K5e series represents the company's mid-range of scalpels. An extensive choice of screen media for the 5,000mm x 1,500mm double deck screen box (effective screen area 7.5m² / 6.75 m²) and a hydraulic adjustable screen angle, enable screening of a wide range of materials. All conveyors and components can be hydraulically



folded for low bed transportation (transport width 2,600mm), whilst on site, the unit without support legs is quickly operational. These features also come with the full hybrid plug Keestrack K5e which weighs less than 1,000kg more than the diesel hydraulic model. At the heart of the K5e is the on board 105kVA generator, which is connected to the diesel engine and directly supplies all electrics. All hydraulic components are powered by a 45kW unit consisting of an electric motor and load sensing hydraulics. The diesel electric drive concept reduces peak loads and contributes to low fuel consumption in diesel operation (7 - 9l/h). This efficiency can be increased by connecting downstream equipment via the external 'plug-out' connection of the K5e.

An added benefit of electrical technology is the reduction in piping and oil volumes of the hydraulics. This results in approximately 40% less piping with considerably reduced wear intensive connections in 'bending' areas and a smaller oil volume of 235l when compared to the purely hydraulic version K5 (370l). Connecting the Keestrack K5e to the electric mains, a stand-alone generator or the plug out connection of an upstream crusher (connection values: 125A, 400V, 50 Hz) is simple and once the plant is positioned, the on board diesel engine can be switched off. After attaching the 3 phase plug connection, the control system handles the entire energy management requirements. It is also possible to reposition the screener via the track drive, or use the hydraulic driven conveyor belts, without the need to restart the diesel engine.

Grapple attachments from Kinshofer

Kinshofer's four styles of grapple attachments, the C, P, D and T-Series, are designed to handle specific types of biomass. Constructed of 500HB steel, the grapples are powered by Kinshofer's 'HPXdrive', a low maintenance system, or by heavy duty hydraulic cylinders. Both options ensure components are protected, reducing damage and extending service intervals, with the 'HPXdrive' system delivering rotation from two hydraulically driven pistons.

The C-Series includes clamshell buckets recommended for dry, bulk biomass, such as grain, sawdust or wood pellets. They can be used with carrier operating weights up to 80t, as well as a range of different shells that can be refitted onto carriers. The P-Series consist of orange peel grapples available for carriers from 16t to 80t with all models being powered with heavy duty cylinders, the components of which are enclosed to minimise damage and maintenance. The wide opening ranges guarantee penetration and release of materials

such as agricultural waste, turf, mulch, twigs, small branches, and waste wood.

The D-Series includes demolition and sorting grapples for carriers with operating weights up to 70t, with a shell design that is ideal for mixed biomass, and for use in loading, sorting, digging and demolition applications. Several models are equipped with an enclosed 360° rotator, making them ideal for underwater applications, with the rotator's heavy duty construction and low height enabling versatile operation in both demolition and sorting. The T-Series timber grapples are ideal for handling forestry biomass such as logs and large branches, with the closing mechanism and tight grip allowing the grapple to clamp more than one log at a time. The attachments fit excavators with operating weights up to 100t, with many models featuring 360° endless rotation, whilst all models include an integrated non return valve to secure loads if pressure drops.

New material handlers from Liebherr

Liebherr's new environmentally electric material handler, the ER 954 C 'High Rise', weighs in at 97,000kg, is equipped with a 250kW electric motor for continuous working, and provides an alternative to conventional drive machines. No refuelling is required, whilst all maintenance areas are convenient and safe to access, meaning that any servicing can be carried out quickly and efficiently. Also new is the LH 30 M material handler, with an operating weight of 26.5t - 29.1t, high handling capacity and a service oriented layout. It can be used in scrap recycling as well as for handling general and bulk cargo. For environments with heavy dust, the LH 30 M is equipped with a large mesh radiator, automatic reversible fan drive and air pre filter with dust discharge. The LH 30 M includes a 17kW hydraulic alternator system from GTS, which enables attachment of a corresponding magnetic plate. The LH 30 M is available with wheeled or crawler undercarriage.

Other features of the LH 30 include infinitely variable hydraulic cab elevation, as well as a 4 point outrigger, a redefined 4 cylinder in line 140kW Liebherr engine. Liebherr 'SCR' technology (Selective Catalytic Reduction) is installed in order to comply with Stage IV requirements, with the system providing high torque. Moreover, load peaks are compensated for meaning that the maximum torque is available for the highest level of material handling performance. The LH 30 M combines electronics with sensitive hydraulics whilst the machine control system adapts the hydraulics to meet requirements of use.

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HAAS celebrates 30 years

"I was overwhelmed that so many visitors celebrated with us and made it a unique and unforgettable time. Today, we operate globally and are a major regional employer with over 80 employees. In 1989, we started small, in a double garage in Stockum. During our business development we were able to experience a lot of beautiful things, so our wish was to pass on a piece of the happiness that we often enjoyed to people who rarely encounter happiness," said Volker Haas of the event and his company's beginnings.

Festivities began with the 'kick-off' being an evening event. As a highlight, and to mark the 30th anniversary, here HAAS handed over to its distributor since 2013, CRJ, a special model. CRJ Services is HAAS' largest customer and currently operates 15 HAAS Tyron pre shredders for rental. "I am proud to work with CRJ Services! More than 50 satisfied customers have now been supplied with mobile and stationary machines. The combination of machine rental and sales creates a unique foundation of trust for potential customers," said René Perne, HAAS sales manager.

The next event was the celebration of the official anniversary with a wide cross section of visitors being welcomed to view demonstrations at the Dreisbach premises. The next, and final day, was reserved for HAAS employees, their families and the inhabitants of Dreisbach who were all keen to learn more about the increasingly global business.

Carsten Schmidt, HAAS' workshop manager, guided visitors around the facilities and introduced the equipment being demonstrated. Amongst the machines being demonstrated was the Tyron double shaft pre shredder which processed large plant roots and wood waste into small sized material. Another demonstration consisted of the Tyron and the Arthos hammermill which shredded wood waste and later PVC window extrusions, with a Gladiator separator removing ferrous and non-ferrous metals.

"At the beginning of the new millennium, we began producing diesel powered mobile equipment for recycling waste wood. What we produce here in this small Westerwald town is very popular on the global market. We act professionally and still with a family atmosphere, which makes us proud," commented Sascha Kloft, HAAS managing director since 2015 of the 30th anniversary event and the opportunity to demonstrate equipment to visitors.



Presentation of the 'anniversary' machine to CRJ



McCloskey's introduces two compact impact crushers

McCloskey's I34 and I34R compact impact crushers are suited particularly to construction, demolition, recycling and asphalt recycling as they divert material from landfill into new applications. With their fast set up time and ability to move around tight spaces, the crushers' small footprint is suited to smaller scale construction projects where space is at a premium and manoeuvrability is key. The compact transport dimensions (less than 2.5m wide) allow easy transport. Built to the same high standards as full size crushers, McCloskey engineers have adapted the design to meet the requirements of today's waste projects and operations.

The compact impactors have new features as well as sharing those McCloskey has delivered across its entire crusher line. These include mobility while operating / crushing, the ability to switch to recirculating in just a few hours, direct drive which delivers better fuel efficiency, full colour TEDD control panel screen, integrated hydraulic folding conveyors, 4 blow bars and apron adjustment to suit either secondary or primary crushing amongst others. The I34 crusher is also able to convert to a recirculating impactor in just a few hours, whilst ground level access allows for service and maintenance, reducing operational downtime.

Rockster's new R1000S impact crusher

Due to their compact transport dimensions and high throughput, Rockster's mobile impact and jaw crushers are suited for use directly on construction and recycling sites, such as in road construction, as well as in the recycling of C&D waste. The latest development is the R1000S, which is equipped with many optional extras. In addition, Rockster offers a range of screeners, which consists of scalping screens, finishing screens and trommel screens. The scalping machines were recently supplemented by a heavy duty scalping screen, the RSS712. The scalping screens are not only suitable for separating C&D waste and natural stone, but also for separating metal, earth, coal and compost. The finishing and trommel screens can also be used for the separation of wood chips, with the trommels also being suitable for separating residual waste and wet material.



Latest developments from Rubble Master

In recent months, Rubble Master and Maximus have been working on developing the fully electrified hybrid RM MSC8500e screen, which is based on the RM MSC8500M. All the hydraulic drives have been replaced with electrical ones, with only the crawler gear remaining hydraulic, whilst components have been integrated that were developed specifically for RM in order to create powerful hybrid machines. These features have led to the development of 'single source crushing', an RM first, as the screen can be powered through the new RM 120Go! Next hybrid crusher. Both crusher and screen can operate from a single power source, with the crusher's high power generator supplying electricity without the need for an additional diesel engine, whereas the hybrid screen can be operated by a diesel engine or other external power sources.

The screen and crusher are able to communicate with each other without wires or cables, and when the crusher's discharge belts are started, the screen also starts automatically. If blockages or faults occur, the screen stops automatically. On the RM MSC8500e, a radio remote control system with display is used for the first time, meaning that the operator need not enter the danger area around the machinery during operation. The RM Go! Next is the continuation of the RM Go! principle. Notable features are more intuitive machine operation and improvements to access points for maintenance and repair work. This was achieved on the new RM 120Go! Next and the hybrid screen by means of the radio remote control, the new RM 'Operations Assist' and a multifunctional wired remote control. LED lights in three colours (green, yellow, red) show the operator the machine's current status which distinguish between operation, service and alert, and are standard features on RM 120Go! Next and the RM MSC8500e.



Photo: RUBBLE MASTER.

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SPECIALIST DEMOLITION COMPANY DEVELOPS OWN SOLUTIONS

for complex jobs

MB Spezialabbruch GmbH & Co. KG (MBS) is an extremely specialised demolition business, and based in the tiny municipality of Breitungen, Germany. So specialised in fact that the company had to develop and build its own demolition machinery and tools for its highly complex jobs.

MBS is a family run demolition and recycling company that is known for the clean and safe demolition and dismantling of industrial power plants, cooling and exhaust air systems. To perform these services, MBS has developed and built its own demolition machinery and tools for many of the demolition projects it has been involved in. A good example of this is the remote controlled demolition robot, RDB 100. This machine has been entirely developed and built in house using the chassis of a Cat 308 D excavator as the base machine combined with standard components on the market, for example from Brokk.

The RDB 100 has dimensions of 5m x 1.5m with-out the platform extending and outriggers. The wheel base is 3.3m, machine weight 10t and the working area is 3m x 3m with shear, which is a Konverma HCM 600-M which weighs 1t. The remote controlled robot was used in the first demolition phase, or dismantling, in the removal of the cooling tower from its original 162m to a height of approximately 80m at the Mülheim-Kärlich nuclear power plant. This, the first phase of the demolition process, involved the selective dismantling of the cooling tower's upper part and lasted around six months. In total, some 3.790 m³ of material was dismantled during this period.

This project also involved the use for the first time of the MAMA method, an in house developed deconstruction system for natural draft cooling towers. The acronym MAMA stands for 'Maschinelles, Automatisiertes,



From left: Andreas Kaschadt, Anne, Peter and Birgit Mittelsdorf, who run the MBS family business.

Mannloses, Abbruch' (German for machine, automated, unmanned, demolition process). The new MAMA method had to be used at the Mülheim-Kärlich plant due to the immediate proximity of the plant's nuclear power core, and the close location of high frequency railway tracks, meaning that there was a premium placed on safety in all areas of the project.

"For this very special challenge we used 14 months to develop the RDB 100 robot from scratch, starting with a handmade design," says Andreas Kashadt, technical manager at MBS. "With the Cat 308 as the base machine, we developed and assembled all hydraulics, electronics, powertrain, electrics here in our own factory. We also have a long-time partner company that makes all the steel work for us." Other partners have been engaged to develop and design the radio remote control, a Topcon GPS system for altitude monitoring and a camera system.

When the demolition robot was tested and ready, it proved to be a challenge to lift the machine more than 160m up to the top of the cooling tower. For this purpose, extensive height access technology was first mounted on the outer shell of the cooling tower to ensure safe access for the operating personnel. Subsequently, the special demolition equipment was positioned on the edge of the cooling tower with a specially developed lifting structure. "It took us about



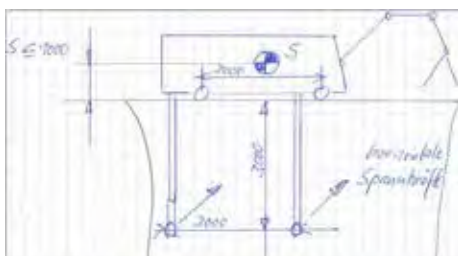
The remote controlled demolition robot, RDB 100 has been entirely developed and built in house using the chassis of a Cat 308 D and other standard components.



MBS has today some 42 highly qualified workers, mechanics, design and mechanical engineers.



In total, some 3.790m³ of material was dismantled in six months.



The first sketch of the RDB 100 robot.



It took about 14h to lift the robot and equipment to the top of the 162m chimney.

14h to lift the robot and equipment the 162m to the top," says Andreas Kashadt.

During some 25 years, MBS has developed various specialist machines and tools, as well as sawing and lifting techniques for demolition. "This is due to the fact that standard machines often cannot be used in our special demolition of very complex industrial building," says Peter Mitteldorf, owner and manager of MBS, who continues, "Therefore, in house development of

special demolition machines has become a part of our company tradition."

The first machine developed some years ago was the 'spinnenbagger', which was a spider like demolition robot also used to demolish industrial chimneys. This first machine formed the basis for the next development, the 'drivebreaker', which is currently used for dismantling the 225m high reinforced concrete chimney of the CHP nuclear plant in Jena. In addition to specialist demoli-

tion, MBS is also active in recycling, earthmoving, site logistics and other related areas, which means handling all of the recycling on demolition sites. Together with the family, Peter, Birgit and Anne Mitteldorf, the company has today 42 highly qualified workers, mechanics, design and mechanical engineers. As well being active in the German home market, MBS has been involved in large special demolition projects in other parts of Europe, Russia and Dubai.



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CAMS RECYCLING MACHINES MADE IN ITALY

Since 1964 Italian company Cams has been a leader in aggregates recycling. With nine ranges and 24 available models, it offers a complete choice of plants to shred, screen and recycle asphalt, construction and demolition waste, glass and aggregates.

From design to manufacturing, Cams products are entirely Italian made, with high quality guaranteed by strict monitoring of the supply chain. Each range includes mobile and fixed plants, ranging from compact to large, with outputs of up to 180tph, and with each machine developed to be combined with others to for the entire recycling chain. New from the company are the UTM-3 and UTS-3 which have been made even more compact with Tier V diesel engines, making them light for easy road and container transport. Available in four configurations, the range has a wide choice of

models differing in dimensions, power and productivity offering an ideal solution for recycling waste on site.

New Centauro

Providing 'three machines in one', the most recent development in the Cams range, Centauro, is available in the 100.32 and L 120.56 versions. It comes complete with a shredder, screen and magnetic separator offering high levels of versatility. It is able to shred and screen both asphalt and construction and demolition waste, with its double motor makes it a highly mobile hybrid machine

with a high level of performance. With productivity of up to 180tph and with crushing and screening delivered at constant efficiency, Centauro has five international patented systems. Installed technologies allow the choice of specific crushing programmes for each material, even when wet, and give a final product cleaned of waste materials and ready to be re used. Thanks to its pusher system, it is ideal for asphalt recycling, with slow rotating shafts are used to recycle 100% of the processed material, whilst hydraulic fingers allow the crushing of both milled materials and slabs.

Cams plants are designed for efficiency, minimising negative environmental impact. The operating principle of Cams shredders is different from typical mills or crushers, as the shredder comprises of two slow rotating shafts meaning that any power requirement is reduced and noise and sound emissions are minimised. The Cams have high efficiency electric motors that have paved the way for the used of hybrid technology, reducing fuel consumption and enabling the redistribution of electricity generated by the plants for use on site.



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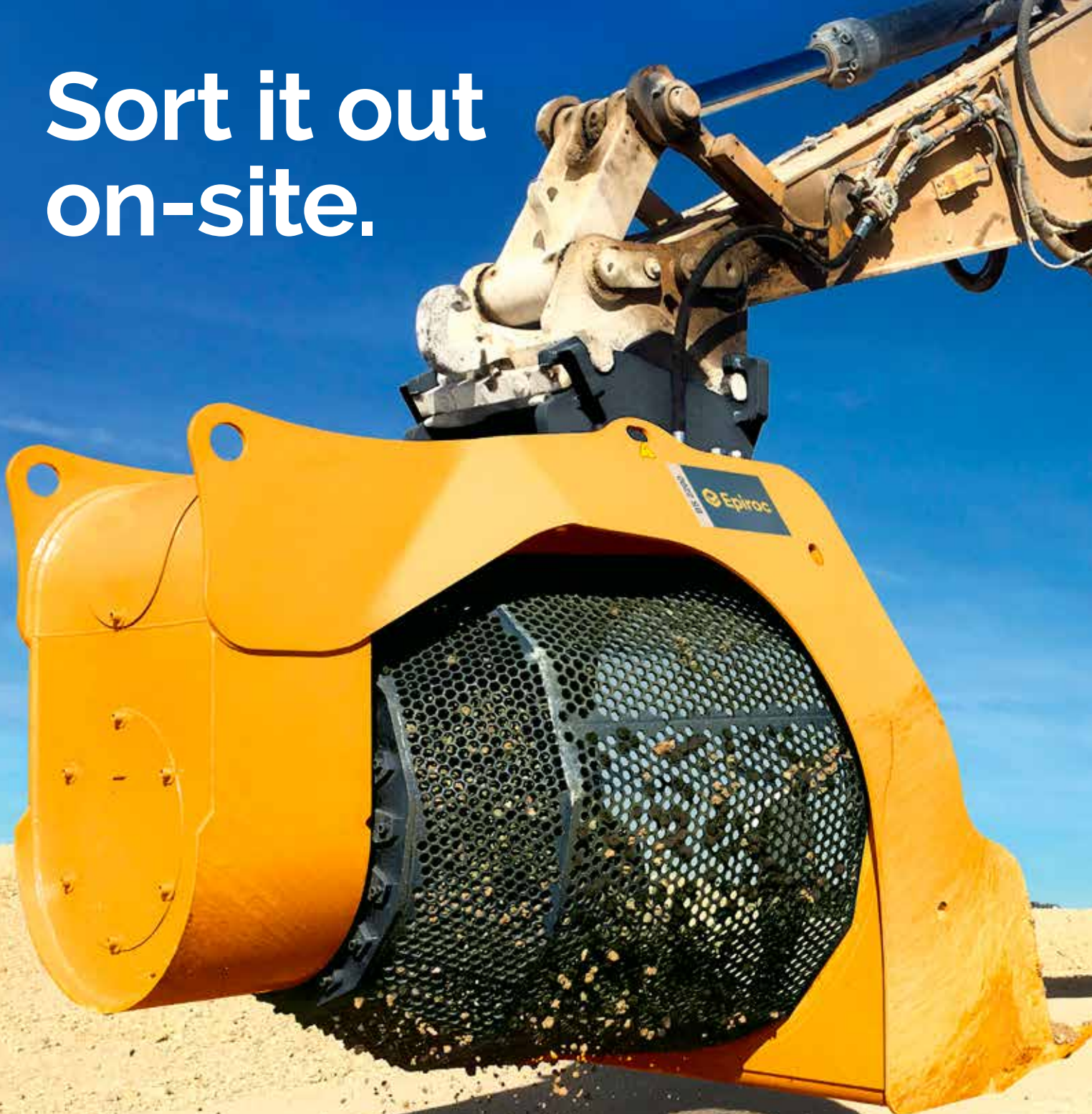
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65 YEAR OLD SILO DEMOLISHED USING VOLVO'S NEW

high reach demolition excavator

Älmby Entreprenad is somewhat of a hidden secret in the Swedish demolition industry, but is a significant player, with an annual turnover of around €34M and a fleet of about 30 different excavators. Now its become the first company in Sweden to dismantle an entire 34m silo using Volvo's new high reach demolition excavator.

Älmby Entreprenad was commissioned by the Torsås municipality to demolish a 34m 65 year old silo. To do this the company used a custom built, 55t high reach Volvo EC380EHR demolition excavator, which levelled the silo in Bergkvara, Sweden, to the ground.

Silos nothing but a memory

The reason for the demolition was that the peak of silo storing seems to have passed, and the question often arises about what to do with them. Some want to keep them, as monuments of times past, others want to convert them for other purposes and some think the only reasonable thing is dismantling them. The concrete silo in question is located off the shore of Bergkvara in southeast Småland, was constructed in 1955 as a seed storage facility, and today is deemed to be in too poor condition to be rebuilt or renovated. After years of discussions, the local municipality decided to demol-

ish the silo before transforming parts of the shore into residential areas.

The Älmhult based company Älmby Entreprenad began the project in February, starting with the sanitation of the complete silo structure. "We have primarily sanitized the complete structure of PCB, asbestos and PAH," says Jonny Nilsson, location manager and associate of Älmby Entreprenad AB, when PDi Magazine met him a couple of days before the demolition began. "The sanitation itself wasn't too complicated, but carrying the sanitation equipment up the staircase tower's 160 steps was quite the workout for the staff." Following this, the initial stage of demolition began.

Adjacent to the silo was a separate storage facility that had been used for various purposes throughout the years, most recently as a machine room. For the demolition of this facility, the company used a Volvo EC300E equipped with a NPK U-21 pulveriser, which immediately separated the concrete steel from the con-

ÄLMBY ENTREPRENAD

Location: Älmhult

Turn over: approximately €34M, of which €9M results from demolition

Number of employees: 103

Number of machine units: Approximately 30

Additional info: The company was founded in 1998 and at that time mainly focused on general construction contracting. Five years ago it decided to expand into demolition and opened a demolition office in Helsingborg and Älmhult in Sweden. In 2018, turnover from demolition work was approximately €9M. Älmby Entreprenad has also acquired concrete cutting company Näsums Betonghålltagning to expand its operations in this field. Näsums has a turnover of approximately €2.3M and 15 staff.

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crete. Tomas Fransson operated the excavator, ensuring that the silo was dismantled without problems together with Magnus Rostedt, who operated the smaller demolition excavator, a Volvo EC300E.

The model used for the high reach demolition was launched by Volvo last year, and is one of three machines in Volvo's high reach demolition excavator series. A 3m long extra boom gives it a total reach of 26m. The undercarriage can be widened for extra stability when the machine is working at great heights with a counterweight of 4t for greater stability, with the hydraulic concrete crusher used for the silo demolition being a 5t NPK s-16XCR. "This is a fun and exciting project. The challenge is the altitude and making sure no demolition debris falls into the ocean," says Tomas Fransson.

Great local interest

The demolishing of the silo has been a hot topic in the municipality for many years and the locals have been curious to watch the work progress. "We don't let ourselves get stressed out by it. We do our job and take it easy. It's just fun to see that there's an interest in the demolishing. As we understand it, the majority of the population in the municipality are happy we're demolishing the silo," says Tomas.

Tomas and Magnus have both been employed by Älmby Entreprenad for six years. Tomas has been focused on demolition and is the most experienced in the company when it comes to working with the high reach excavator. Magnus started working in demolition one year ago and since then the colleagues have worked together on a couple of projects, often working far away

from home and living together in a van. "Tomas and I work well together and that's a big plus when you're colleagues and live so close together," says Magnus of the good relationship between the two men. Furthermore, there is usually little spare time in the evenings. "We work from six in the morning to six in the evening Monday to Wednesday, so that we don't need to work for the half of Thursday and the whole of Friday. It's better to just go on when you're out on a job, so that we can come back home in time on Thursday," says Magnus.

Älmby's initial plan was that as the towers were demolished little by little, from the outside moving inwards

towards the taller 34m main structure, a ramp would be built from the resulting debris, up towards the main structure. The total height of the ramp had to be 8m in order for the excavator to reach the top. As the demolition progressed, it was realised that there wasn't enough demolition rubble for such a high ramp. This meant bringing in a remote controlled demolition robot, a Husqvarna DXR 310, which was lifted up to the roof of the building. It worked its way down 2m using both a hydraulic hammer and a crusher. This resulted in enough concrete rubble to build a 6m ramp enabling the high reach excavator to take over and dismantle the remaining 32m of the structure.

Tomas and Magnus were both conscious of the risk that not everything would progress smoothly, but both men are oriented towards problem solving, viewing it as one of the perks of the job. At an early stage, a challenge arose, and Älmby was a little unsure how to proceed when it came to tearing down a large iron beam located on the roof on the upper building on the towers. It turned out to be completely stuck, but eventually it was removed in one piece. Another unexpected problem was the breaking of boom, which had to be replaced from overseas, which took two weeks. Despite this, the demolition progressed well, taking around five weeks before the silo in Bergkvara was completely demolished.

Today when visiting the Bergkvara shore, the only thing that remains of the silo are piles of concrete of what had been a part of the village for 65 years. Of the 5,000t of the resulting demolition debris, 4,000t was transported just a couple of miles away to be used for a construction job, whilst the remaining debris was disposed of as waste.

PROJECT INFORMATION SILO DEMOLITION

Silo building: Constructed in 1955 as a depot and for the interim storage of seed
Contractor: Älmby Entreprenad AB from Älmhult, Sweden
Client: Torsås municipality
Highest point: 34m
Included in the demolition project: A store-house building as well as the silo with 15 towers and one main building
Concrete mass: 5,000t
Steel: ca 100t-200t
Equipment used: One Volvo 55t high reach demolition excavator, EC380EHR, with a boom reach of 26m reach, plus a 30t Volvo EC300E
Project partner: AMW Industrisanering

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Let's cut some joints, shall we?

Floor sawing is the backbone of the concrete cutting industry. Floor saws, aka flat saws, aka pavement saws, aka joint cutters, are the most widely used type of concrete and asphalt cutting machinery. They fall into two basic categories: walk behind saws for small to medium sized jobs and ride on machines intended for large scale projects. PDi's Andrei Bushmarin recaps the latest news from the floor sawing sector.

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Unicut 600: an all-rounder from Lissmac

The Unicut 600 model from German based manufacturer Lissmac is a classic all-rounder designed to perform day to day floor sawing tasks. Powered by a 136hp EU Stage IV compliant Deutz turbo diesel engine with an integrated intercooler and stepless hydraulic drive, the saw provides a maximum cutting depth of 630mm. An electro hydraulic steering system enhances the machine's manoeuvrability with a calibrated single cooler for its hydraulics to prevent

engine overheating. The elevation of the saw head is steplessly adjustable, with the blade being able to be installed on either side of the saw, with the possibility of making bevel cuts of up to 15°. Available extras include a tandem longitudinal cutting device, a depth cutting unit, a grooving unit, and a drilling unit, a conversion kit for pulled cuts, a drive unit for the rear axle and a vacuum suction unit. Thanks to the 'depth cutting' add on, the saw can be

modified to accommodate blades of up to 1,500mm in diameter. The Lissmac microtrenching and duct cutting machine is also built on the Unicut 600's chassis and with the aid of a special laying device, ducts are automatically threaded into the trench as the machine moves along. The microtrencher is designed to make cuts up to 400mm deep and between 32mm to 38mm wide in one go.

www.lissmac.com

Husqvarna adds a new electric model

Sweden based heavyweight Husqvarna has added a compact walk behind model to its floor cutting range, the FS 500 E. Driven by a 7.5kW electric motor, this new zero emission floor saw enables contractors to reach their sustainability targets without compromising productivity. Thanks to the sturdy IE3 compliant electric motor, there are no harmful emissions, while noise and vibration levels are also significantly reduced. Erik Edvardsson, product and service management director at Husqvarna Construction Products says about the new model: "The FS 500 E complies with health, safety and environmental regulations. The low vibration levels, the absence of fuel emis-

sions and the saw's ergonomic design make it an excellent choice for small sized service and repair jobs." With a cutting depth of up to 192mm, the FS 500 E is suitable for most floor sawing applications. Due to its compact dimensions, the machine is easy to manoeuvre and transport while optional extras, such as automatic soft start, phase error detection and phase shift plug, ensure comfortable operation. The built in water tank makes it possible to work without an external water supply and optimised flow to the diamond blade keeps water consumption to a minimum.

www.husqvarna.com



Wakra pioneers dry floor sawing with diagonal alignment

German based floor saw specialist Wakra Maschinen GmbH has launched the Dicorona 514S model, which is said to be the world's first dry floor saw with diagonal alignment. This design allows aligning the machine up to 5° diagonally for cutting precise curb flush joints when the diamond saw blade is installed on its right hand side. Thanks to the integrated dust unit with a two cyclone separator, there is no dust

pollution or slurry. However, the Dicorona 514S does have its limitations as it only cuts asphalt, with concrete cutting not being an option with this system. Thanks to the steering wheel, the floor saw is very manoeuvrable and allows precise cutting around the curves. The traction drive occurs via a hydrostatic transmission, adjustable up to 30m/min.

www.wakra.com

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Gasoline powered floor saws from Wacker Neuson

Wacker Neuson's series of gasoline powered floor saws includes four models: BFS735, BFS940, FS1345 and the BFS1350. The series can accommodate 350mm to 500mm diamond blades and have hand arm vibration (HAV) levels below 5m/s² as per the current EU regulations. The low HAV values make it possible for the operator to use the machine

for up to 8h per day without any detrimental health effects. The gasoline driven floor saws are traditionally known for high performance, cutting stability and manoeuvrability, with the full frame chassis is constructed from high tensile steel for enhanced robustness. The centre of gravity is located precisely above the cutting axle to maximise the blade's cut-

ting force, and thanks to an infinitely variable cutting depth from 120mm to 195mm, the floor saws ensure a clean cut in various materials. A double facet water sprinkling system helps extend the blade's service life, while the ergonomic handle grip reduces any operational fatigue.

www.wacker-neuson.com



Baier features 11 blade model

Based in Stuttgart, Germany, Otto Baier GmbH has been producing power tools for over 80 years. A well-established international player, Baier currently supplies its machines to over 60 countries worldwide. The manufacturer's flagship model in the floor sawing segment is the BDN 511, a walk behind machine that comes equipped with 11 diamond blades. This solution enables the removal of a concrete layer of up

to 45mm deep and 50mm wide in one go. The saw does not require any water supply and works in tandem with Baier's OSHA approved BSS 606L vacuum cleaner in dust free mode. The operational cost is just about €0.2 per running meter. As of recently, the BDN511 is available with a new stronger guide and an additional pointer.

www.baier-tools.com

Diam Industries: a major force in the French market

A market leader in diamond tools and one of the most well recognised suppliers of concrete sawing, drilling and surface preparation equipment in France, Diam Industries has the SC451 floor saw to offer to professional users. Suitable for both road and floor sawing applications, the SC451 is driven by a 9.6kW petrol engine and uses a 450mm diamond blade to cut asphalt and

concrete surfaces to a depth of up to 164mm. Weighing in at only 95kg, this compact floor saw is easy to operate and manoeuvre. The machine comes with a 25l water tank and a dual sprinkling system to cool down the diamond blade during operation. A vibration dumper on the adjustable handle helps reduce vibrations.

www.diamindustries.com





The new Rotolance series is designed specifically for the Ergo system.

BIG CHANGES

in hydrodemolition

This year's hydrodemolition feature is divided into corporate and product news. In the former category, Gulfstream Nordic Holdings AB has become majority owners of Conjet AB, whilst products wise, Aquajet Systems has introduced the Ergo Rotolance range of hydrodemolition attachments.

The hydrodemolition industry evolved during the 1980s with two manufacturers being considered the major international players, Conjet AB and Aquajet Systems AB. Since then, both hydrodemolition techniques and the business arena have undergone major developments. A couple of years ago, Brokk AB acquired Aquajet Systems AB and just a few weeks ago Gulfstream Nordic Holdings AB bought the majority of the shares in Conjet AB.

Gulfstream Nordic Holdings gain majority stake in Conjet

Gulfstream Nordic Holdings AB (GNH) has entered into an agreement to acquire a majority shareholding in Conjet AB, one of the world's leading specialists in the design, development and manufacture of remotely operated, computer controlled hydrodemolition machinery. In 1990, the owners of Conjet AB acquired, through a management buyout, Atlas Copco's Conjet project and have since then successfully developed the company into a leading player in the hydrodemolition market on a global basis. The Conjet team has over the last few years managed to combine high growth with the continuous introduction of highly advanced new robots to the market. Today, as a result of Conjet's many years developing and improving the technology, hydrodemolition is now seen as by far the most efficient

method for the repair and restoration of deteriorated concrete structures such as bridges, parking decks and dams (to mention just a few relevant areas).

Conjet's owners came to a point where they identified a number of major issues to address, but also, and more importantly, saw the need for a partner with the ability to fuel and accelerate future growth. The purpose of bringing in GNH as joint owner is thus to strengthen

management expertise in developing the global business as well as adding financial muscle enabling investment in a combination of organisational and product developments to support long term growth. GNH will also bring further access to the US market and facilitate expansion in North America through its existing network and presence. The existing management team and owners, with their extensive competence, will remain in



The Conjet team: From the left Johan Fahlström, Patrik Ankerst, Lars-Göran Nilsson, Kjell Nilsson, Tomas Wängberg, David Hallbäck and Carl Strömdahl.



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the company and play an important role in the future, with Conjet remaining an independent company.

"We have more than doubled revenue in Conjet over the course of the last three to four years, and we have simultaneously been able to expand our business and improve our product offering to the highest level ever. We see great opportunities ahead in our markets based on our competent employees as well as our technology edge, ensuring the perfect match between our immediate customers and the projects they work on. We have had a constructive and positive dialogue with GNH and are looking forward to sharing their experience from similar situations in a partnership. Together we can realise Conjet's potential in the coming years," said Lars Nilsson executive vice president of Conjet.

"Conjet's products and field expertise provide a much needed set of solutions to the aging infrastructure challenges faced by private owners and governments in North America. We are excited to partner with Conjet to increase accessibility to, and usage of, its cutting edge hydrodemolition machines in the US and abroad," said Stephen Sistrunk, partner at GNH. "We will do our part to support the growth and generate an even stronger business by leveraging our experiences and strategic know how from other growth companies with global presence, focusing on investing in and systematising sales and strengthening processes and systems," said Tomas Wängberg, partner at GNH. "We are confident about the great potential in Conjet and are extremely impressed with what the existing team has achieved over the years. The market for hydrodemolition is in our view very attractive and we believe Conjet is in a strong position to take advantage of this. We look forward to teaming up with current ownership to be a part of the continuous growth journey," said Peter Ankerst, partner at GNH.

New developments from Aquajet Systems

Newly launched by Aquajet is the 'Rotolance' series which effectively cleans, removes and roughens concrete, leaving a better bonding surface for new concrete or alternative materials. Contractors also can use the Ergo Rotolance attachments to remove rubber coatings, paint, rust, plastic and other material. As a hydrodemolition option for small scale scarification and removal projects, the Ergo Rotolance allows operators to increase service offerings safely and efficiently. The Ergo Rotolance series is commonly used in maintenance and removal applications at airports, harbours, water treatment facilities, reservoirs and petrochemical plants. The series can handle water pressure between 100 to 3,000bar through specially designed patterns of nozzles. The at-



The Ergo Rotolance 130 and 130S work at pressures ranging from 100 to 3,000bar.



The new Rotolance 30 self-rotating tool has four nozzles and a 30mm spray pattern.

tachments offer new versatility for the Ergo system and are compatible with the 'Ergo Climber' and 'Ergo Spine', providing access in confined or hard to reach places. As an alternative to sandblasting, the Ergo Rotolance series eliminates dust pollution and the need to dispose of contaminated sand.

The Ergo Rotolance 30 self-rotating tool has four nozzles and a 30mm spray pattern. It uses pressures up to 3,000bar to quickly and precisely remove a shallow layer of concrete, leaving a superior bonding surface. Contractors can use their own favourite hand gun tools on the Rotolance 30 thanks to a multi bracket system with an adjustable span of 14mm to 51mm, making it an ideal positioner. The Ergo Rotolance 130 and 130S work at pressures ranging from 100 to 3,000bar and leave a smooth surface when cleaning or removing hard paint, rust and rubber from areas such as airport runways. They feature up to eight nozzles for a 130mm spray pattern. A hydraulically driven swivel allows for precise control of rotation speed for even results. The 130S is also equipped with a suspension system, allowing it to follow uneven or curved surfaces such as ship hulls and storage tanks. In addition to a wider range of movement, the suspension mechanism has an ingenious design that allows the spring force to be adjusted in four steps and can, at the same time, lift the rotor head up from the surface to make assembly and inspection of the result easier.

Efficient removal with equipment from Kamat

For more than 40 years Kamat GmbH has worked at becoming one of the world's leading system suppliers of high pressure technology, producing in house high pressure guns for manual surface cleaning as well as providing bespoke solutions.

As well as its standard ranges of pumps and systems, Kamat, with its head office in Witten, Germany, designs and supplies customised units and systems, specially based for the requirements of the respective application. For example, the company develops water hydraulics and high pressure water jet technology for working pressures up to 3,500bar and power inputs up to 1,200kW per pump. One of the company's major lines is its specially developed, in house produced, selection of high pressure guns for surface treatment, for use, for example, in the targeted removal of concrete. In addition, Kamat also offers a specially developed selection of high pressure guns with electrical or mechanical control,

complimented by different versions of foot valves and rotating gun lances.

These products possess excellent ergonomics to deliver highly innovative solutions. Thus, for example, all high pressure guns are provided with a special pivoting grip which does not transmit any torque to the wrist. In addition, the optimal hose routing for all work situations is easy, as the hose connection can branch off in all directions when pivoting. This special 360° pivoting grip does not only avoid any torque in the wrist, it also guarantees, among other things, fatigue free work. The handle is highly shock resistant and rock solid. This results in no 'break offs', as a common problem with high pressure guns is that the cables break easily and that the resulting change of the cable can be a difficult process. This problem has been solved by designing the gun in a different way: the electric proximity switch is only plugged in and not glued in, which makes it easy to be exchanged immediately should there be a cable failure. Furthermore the high pressure connection and the hose points of Kamat's high pressure guns point backwards, thus the forces caused by the hose are reduced.

Kamat also adheres to philosophy that machine safety is of utmost importance, as is the safety of operators and any others in the proximity of the equipment. The company always keeps in mind that all technical solutions and new developments follow this philosophy, with Kamat's high pressure guns being considered to be some of the safest on the market.

The range of high pressure guns is offered with different versions of foot valves, rotating gun lances, rotating nozzles and further accessories, enabling use on a variety of applications. These include, cleaning of surfaces and pipes, removal of paint and coatings, removal of concrete, uncovering reinforcements, cleaning and washing of concrete and stone. The guns are highly suitable for manual surface cleaning when fitted with different nozzle types and materials. Kamat's externally driven rotating nozzles increase the cleaning performance considerably when working with high pressure nozzles enabling the full utilisation of hydraulic energy in order to get the job done.



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JETPOWER480-

Vario from Uraca

Uraca's new 'JetPower'480-Vario is a flexible high pressure pump unit ideal for virtually every application.

The new pump unit is able to tackle a wide range of alternating applications without needing any modification. Thanks to its exceptional flexibility, this powerful unit in the 480 kW class is suitable not just for industrial and contract cleaning, but also for surface rehabilitation. The key to this flexibility is automatic adjustment catering to the demands placed on the tools being used. This provides the ability to run virtually any tool, from simple hand tools to hydrodemolition robots, efficiently with a single machine, without the need for modifications. This allows for big jobs, such as concrete demolition or large vessel cleaning, and any associated tasks with a handheld gun to be carried out in rapid succession.

The unit is easy to operate, and doesn't require the flow rate to be adjusted in advance. The required pressure is simply set via a user friendly control system, and the unit quickly responds to adjust its output to deliver this pressure to the tools currently in use. A colour display providing important information at a glance completes the intuitive 'Uraca Control' system. The result is the ability to quickly switch the unit between different high pressure applications while maintaining energy efficient operation.

The pump is skid mounted complete with all drive components and is powered by a Caterpillar diesel engine. This engine provides for environmentally friendly

operation in accordance with the current Tier V emissions standards. Fuel consumption is also minimised with the help of automatic transmission that can shift under load, ensuring efficient operation across a range of operating conditions. For mobility, the complete unit can be either truck or container mounted. Skid mounted water and diesel tanks are sized appropriately for the unit's mobile use.

The advantages of the pump are clear: for example, a single pump unit rated at 1,000bar is ready to tackle jobs with flow requirements ranging from 16l/min up to 283l/min, without the need to change any components or employ energy wasting devices. This flexibility means an entire job site can be served by a single pump, which is capable of efficiently tackling jobs both big and small.



JetPower480-Vario.



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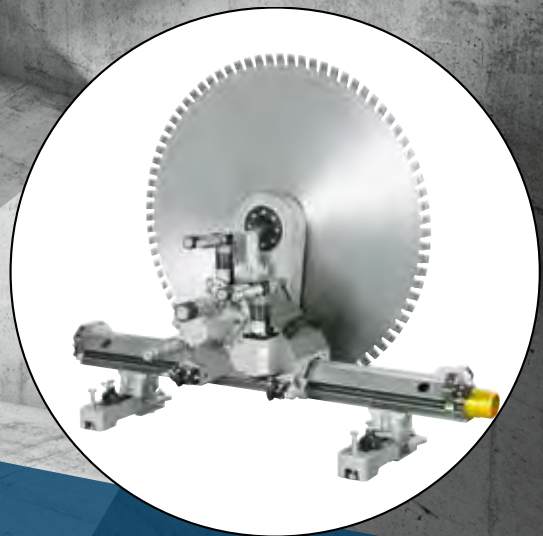
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Rockster R800 crushes 280,000m² of reinforced concrete in Russia

On an area of 23,000m², the old factory buildings of Kombinat in Voronezh needed to be demolished, with a Rockster R800 jaw crusher being used as part of the job.

The company Kombinat Stroitel'nykh Detaley was the largest supplier of reinforced concrete products in the Central Chernozem region of Russia, being mostly engaged in the manufacture of railway tracks and track crossings for the railway infrastructure. Due to bankruptcy of the company, the whole area has been sold, with the old buildings and infrastructure needing to be demolished.

For the final stage of processing the demolished material, a Rockster R800 jaw crusher with screening system was used, enabling the customer to better define the final fraction, with the magnetic separator on the crusher being essential due to the concrete being steel reinforced. "The crushed material comes out already in the requested fraction size and ready for sale. The advantages of this crusher are compact transport dimensions and low weight that do not have special restrictions for transportation. An increased maintenance interval to 1,000h, low service and usage costs thanks to little wear are further benefits," says Rockster Russia dealer Maksim Perminov.

The robust design of the machine is suitable for work on this highly reinforced concrete. The crushing chamber easily copes with the large amount of reinforcement, whilst the magnetic separator separates the metal from the crushed material and places it to the side. The side discharge conveyor placed before the crushing chamber removes fines and soils which are separated by the 1.2m long pre-screen, resulting in the flow of material and final grain quality being improved.



Epiroc HB 3100 in foundation works at former bullring area in Portugal

Praça de Touros in Cascais, Portugal, is making way for a luxury development. A premium residential complex is being built with the company Restradas excavating a construction pit 12m deep for the future building site.

Founded by Fernando Ferreira Melo in Penafiel in April 1995, Restradas has specialised in areas such as civil engineering, demolition, excavation work, waste recycling and the production and marketing of aggregates. The company has expertise in handling large scale projects in these different areas of use. This was shown during the Cascais project, with the site being located metres away from other residential complexes, meaning that conventional blast methods could not be used to demolish the rock. Project management thus decided to use hydraulic breakers to remove the 100,000m³ of very hard, resistant limestone instead.

The decision resulted in using Restradas's large excavators equipped with different hydraulic breakers, with Restradas requiring its 36t excavator to use a hydraulic breaker which would meet the requirements of such a task. This led to the company to contact Epiroc Portugal

to provide a suitable hydraulic breaker. Restradas was already familiar with Epiroc's hydraulic breakers, and decided to acquire the 3,000kg HB 3100 with Conti-Lube II and the 'Intelligent Protection System' (IPS). This is also equipped with the 'DustProtector' system, which is suitable for the demolition of resistant stone, as is the case with the limestone in Cascais.

There are other features which makes the breakers highly suitable for the task at hand at Cascais. These include the robust design and long service life of all HB breaker components, an auto greasing system Conti-Lube II, and the 'EnergyRecovery' system, which uses the energy from the piston rebound to reduce wear and vibrations on the carrier vehicle. A new IPS system also ensures that the hydraulic breaker always starts in the 'AutoStart' mode, meaning that when the contact pressure between chisel and material increases 'AutoControl' switches from a short piston stroke to a long piston stroke with the IPS switching automatically to the 'AutoStop' mode. When the chisel breaks through the material the breaker automatically shuts off preventing blank firing.



TEN INDECO HAMMERS

Indeco Mexico has sold ten hammers in six months to Volvo dealer Ascendum. Its first order was for three HP 7500s (the American equivalent of HP 4000) for CODESA, a construction company in Querétaro, 200km north of Mexico City.

The project involved building a 700m long vehicle bridge with a maximum height of 7m, with the excavation and removal of approximately 14,000 m³ of basalt. The bridge is located in Querétaro on the road to Celaya, known to locals as 'colonia Balvanera', hence

the name 'Balvanera Bridge'. The project involved two critical issues as it was so close to the city, meaning no explosives could be used even though the basalt was particularly hard. Additionally there was a need to complete the job quickly so that the road could be opened up to traffic as soon as possible. The first three hammers proved to be a great hit, so the company purchased another seven Indeco hammers, five HP 7500s (HP 4000 in Europe) and two HP 8000s (HP 5000 in Europe).

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A DIFFERENT WAY

“OUR MILLENNIALS ARE DRIVING THE DIGITIZATION PROCESS”

Husqvarna’s Henric Andersson recently explained that the company launched a series of new products at bauma this year, several of them PDi has already written about.

Henric provided a quick overview of the releases, mentioning the new wet cutting blades Z Edge, which the company has invested in heavily in order to increase productivity. He also pointed out the new battery powered cutting machine K 535i, for which much attention has been paid. “We are only at the beginning of the battery powered venture, and here much more will happen in the future I can assure you. Effective development work is ongoing, and we have a close and long collaboration with our Husqvarna Forest & Garden colleagues and direct battery producing companies,” says Henric.

As part of its product development, Husqvarna is continuously working on ways to improve the relationship between weight and effect. A special blade has also been developed for the K 535i, with a focus on lower energy consumption and noise. The K 770 Vac is also a new addition that has previously been mentioned; this effectively takes care of dust, as is easy to integrate with a vacuum cleaner. The product is predicted to become very popular in the Japanese market. Also new is the K 770 Dry Cut with a dust collecting bag directly adjacent to the power cutter that takes care of any dust. This product is also predicted to become very popular in Japan.

With the acquisition of Atlas Copco’s lightweight construction machinery, however, Husqvarna has taken a direction away from the product segments with which it is most closely associated. More specifically, Husqvarna bought Atlas Copco’s series of packing machines, trowels and glazers and concrete processing equipment. Henric Andersson is convinced that this was the right investment to provide a total solution from compacting soil to a finished, polished concrete floor. “The new steps we have taken within Husqvarna have been preceded by a carefully crafted global study that started already in 2015. The purpose of the study was to find the most

attractive market segments in different regions. With the new products we can increase our presence in, among other things, rental. In addition, we want to increase our market share in emerging regions and countries such as Africa, India and South America.” Henric added that



Henric Andersson, head of the Husqvarna division for construction and civil engineering products.

now about two thirds of the company’s new construction products are sold purely for the rental market.

Continuing, Henric also stated that Husqvarna’s series of trowels, in certain conditions, can provide an alternative method to grinding and polishing concrete floors. This has seen Husqvarna’s HiperTrowel system now being able to be fitted with diamond pads that create a smooth and semi polished flooring surface. Husqvarna’s trowels are currently ‘walk behind’ and not the type for riding on. With regard to Husqvarna’s packing machinery, the new articulated trench compactor LP 9505 was developed in house after the acquisition of the Atlas Copco line.

The so called ‘bread and butter segments’ have not been forgotten about, namely Husqvarna’s concrete cutting machines, diamond tools, demolition robots and floor grinding and polishing machines. Here Husqvarna now takes a holistic approach, and has built up a whole new platform that is not only about the tools and machines, but also the ‘softer’ values. Husqvarna Fleet Services allow customers through a subscription model to better manage their machine fleet. This is to increase the utilisation rate, maximise operating time and offer guidelines for safety and efficiency.

The system operates with the dealer equipping the machine with sensors that record the machine’s operating parameters, with electronic identity cards being available for the users of the machines. The cards are paired with the machine sensors automatically and wirelessly, with the reseller registering the customer’s machines on their management website, with the customer receiving login information. The customer gets a base station, which is connected to the internet; when the base station, or a cell phone, is within 20m-30m of the sensors, usage data is uploaded wirelessly to the customer’s own pages in the database. There they are

transformed into user friendly and accurate information on the machine's operating time, productivity and time for the next service.

Husqvarna Fleet Services is part of the new Husqvarna UpServices umbrella, which is divided into UpCare, UpFund and UpGuide. UpCare is a service contract between Husqvarna and the customer, UpFund stands for financing solutions and UpGuide covers user guides for Husqvarna's various machines such as demolition robots, cutting machines, dust and slurry handling and so forth. Also new for Husqvarna's series of diamond tools is the Diamond Tool Selector, which helps the customer choose the right diamond tool for the job.

Following Husqvarna's acquisition of HTC, a new platform for single disc machines has been launched for grinding, polishing and maintenance of concrete floors. "As our product range on the concrete floor side has become so extensive, we have made a fairly clear distinction between the Husqvarna machines and HTC. We are investing into the HTC brand as it is very strong in most markets," says Henric. To some extent it is also the same case with the dust and slurry extractors and air

cleaners from Pullman Ermator, with the brand being very strong in Scandinavia and the U.S.

When asked if there are plans for additional sizes of demolition robots, Henric is a bit more uncertain. He believes that today's model range pretty much covers customers' needs in construction where the main focus of the company is placed. "However, if we decide to focus harder on the industrial sector, larger machines are needed," says Henric. "We are globally growing well within the construction segment for demolition robots."

It is noticeable that Henric Andersson has a slightly different management strategy to his predecessor Anders Ströby. If he didn't, it would of course be strange. "We work differently today, but the basic structure and overarching direction itself is unchanged. However, we have made a slightly different breakdown of the products. Today, there are three product groups within the company and there are different people within each group. No direct overlap that makes it difficult to keep track of everything. The staff in each group are very focused on a customer segment and the associated products. The aftermarket has become

a separate business area, which is important for us and the customer. In this lies an added value for the customer, which is an important investment in retaining customers," explains Henric.

Finally, Henric points out what is perhaps the most important link in the new Husqvarna, digitalisation, which along with customer value are two very important parts of meeting the future and the current needs of customers. "Many of our corporate customers are in a generation shift. Many of the active companies today were started in the 1960s and 1970s. It is perhaps both the second and third generation who work in the companies and who will take over them. Many are so called 'millennials', those born around 2000, who take the increased digitalisation for granted. As a manufacturer, we must meet their digitalisation needs in terms of information, handling and efficiency. I would like to go so far as to say that we, as a manufacturer, have a responsibility to meet this group's demands. We have to make it attractive to work in demolition, concrete cutting, floor grinding and polishing, construction work and more, and then increased digitization is the right way forward," concludes Henric Andersson.

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Based in Ilsfeld, a town in Baden-Württemberg, the nexus of Germany's construction equipment industry, Wolff GmbH and Co. KG has been manufacturing machines and tools for floor removal and surface preparation applications for over 60 years. Unlike its many competitors who have outsourced their production to various locations abroad, Wolff has always been loyal to the tried and tested 'Made in Germany' formula. Andrei Bushmarin reports.

Surface preparation is no longer just another 'fancy fad' as many die hard concrete cutters believed only fifteen years ago. Today it is an established industry with a worldwide reach. Having eventually recognised its immense commercial potential, an increasing number of professional contractors have added floor grinders, polishers, strippers, scarifiers and burnishers to their arsenals. With a 60+ year track record in the trade, Wolff GmbH is a trusted one stop supplier of surface preparation solutions.

The awakening of the wolf

As often the case in this business, Wolff (meaning 'wolf' in English) is the family name of the company's founder Hans Wolff, who established the business on 26 January 1954. Hans had learned the ropes of the profession by working as a mechanic at DLW Flooring GmbH that designed and manufactured floor covering products. When Hans left DLW to pursue his entrepreneurial

ambitions, he chose floor removal machinery to be his core business. By 1972 when Wolff GmbH was granted its first patent for floor strippers, it was still a relatively



Wolff's headquarters and manufacturing facility in Ilsfeld, Baden-Württemberg.

small company with some 20 staff. In 1977-78, its factory in Bietigheim-Bissingen was expanded with the addition of another building. During the 1980s, Wolff's staff grew to 30 people and its manufacturing capabilities were strengthened with the commissioning of its first CNC centre. In the period from the late 1980s to the early 2000s, the company changed hands a few times until in 2002 Uzin UTZ AG (a floor specialist with a global footprint based in Ulm, Germany) acquired 100% of Wolff's shares.

International expansion is top priority

In the noughties, Wolff cemented its position in the domestic market and started to make inroads overseas using UTZ's extensive network. By its 60th anniversary in 2006, Wolff evolved into a mid-sized company with strong engineering and manufacturing competencies. In 2014, the company confirmed its commitment to keeping production at home by moving into a new



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"The latest BiTurbo stripper unveiled at Bauma earlier this year sets a new benchmark for removal of all kinds of elastic floor coverings, including parquet".



The award-winning Duro stripper.



"The planetary grinder NEO 230 is Wolff's trademark and best-selling model in this product group".



"By its 60th anniversary in 2006, Wolff evolved into a mid-sized company with strong engineering and manufacturing competencies".



"Floor strippers have been at the core of Wolff's business since the early 1970s."

7,000m² facility in Ilsfeld. Out of the 100 personnel it now employs, roughly half are involved in production, with the other half sharing sales and administrative duties. In recent years, an increasing international profile became the number one priority for the German producer, whose turnover reached an impressive €22M last year. Wolff now sells its equipment to some 30 countries worldwide, with North America being the biggest buyer. On the European continent, the Wolff brand is currently best known in the Netherlands, Switzerland and the UK. Thanks to a Europe wide network of service stations, the company is able to provide aftersales and maintenance support in a fast and efficient manner.

'Oh, those German strippers!'

Floor strippers have been at the core of Wolff's business since the early 1970s. Accounting today for some 35% of total turnover, the machines keep getting more

productive and operator friendly. The latest BiTurbo model, unveiled at Bauma earlier this year, sets a new benchmark for the removal of all kinds of elastic floor coverings, including parquet. Boasting a double self-propulsion function (forwards and backwards), variable speed from 0 to 27m/min, blade adjustment for different types of flooring and easy manoeuvrability, the BiTurbo is designed for high productivity and operating comfort. Unlike the award winning Duro model built around an oscillating principle (which makes the stripper ideal for small to medium sized jobs), the BiTurbo is based on impact technology. It generates 3,000 beats/min ensuring the machine's high performance on large areas.

Grind like a Neowolff

Concrete grinders and polishers are the second biggest product group in Wolff's portfolio, accounting for some 20% of turnover. Having diversified into this

business about 15 years ago, today Wolff can offer its customers an ample range of grinding and polishing machines, which includes both single head and planetary models. The planetary grinder NEO 230 is the manufacturer's trademark and best-selling model. Designed for mid to large sized jobs, it allows grinding close to edges. Other highlights include an integrated skirt for dust free operation, angle adjustment of the grinding head in three positions and a height adjustable and folding handle. Tools for processing PVC, linoleum, rubber and textile floor coverings such as cutters, pressure rollers, joint groovers and automatic welding machines constitute Wolff's third most important product segment. The manufacturer also hinted that there are some more innovations in the pipeline which it plans to unveil at the Domotex trade show in Hanover in January 2020.

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Hoofddorp in the Netherlands based Diacom was founded in November 1979 by Albert Conijn and Peter Mohar in response to the market need for high quality diamond tools for professional concrete drilling and concrete sawing companies. The strength of the company was, and still is, that it manufactures in-house, meaning that the company is able to respond to any need for bespoke products quickly, with high levels of customer service.

Manufacturing began with 5 employees in Hoofddorp. Growth saw the company move ten years later to a new purpose built facility, also in Hoofddorp. Development of the business saw Peter Mohar replaced by Loek Beuke, with a more professional organisation for the business. Albert became responsible for sales, Loek for internal operations and Casper Welman being responsible for administration and finance. Diacom is a real family business with the children of Albert and Loek now working at the company with Eric and Rob Conijn working in sales, with Linda Beuke working in administration and human resources.

In order to steer growth in the right direction, a new office building was acquired, providing extra space,



including a showroom for products and services. This move reinforced Diacom's ability to strengthen its position in the market and with the arrival of Tobias Idsinga as general manager and financial director, ensured that innovation is high on the agenda. A web shop been created, helping to ensure that in terms of product development, customer needs are constantly being met. The company now employs 24 people and is led by Rob and Tobias on a day to day basis.

For 40 years Diacom has delivered a customer focused service and is a now considered to be a highly versatile partner for professionals in concrete drilling and concrete sawing. It is able to supply bespoke solutions due to its many years of experience, providing the right solution. The flexible nature of the company means that it is able to cater for both small and large projects, with in-house manufacturing ensuring rapid delivery times and a high quality product.

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Over 200 exhibitors at German twin trade shows

The RecyclingAKTIV and TiefbauLIVE demonstration trade fairs showcased the latest crushers and shredders, as well as other specialised equipment for material handling, transport and logistics.

The 238 companies which exhibited at the two shows demonstrated construction machinery and additional tools for civil engineering, earthwork and road construction, both displayed and live in action on 80,000m² open air exhibition space. "Our four special theme areas alone will feature a total of 10h of live machinery demonstrations every day," said Britta Wirtz, CEO of Messe Karlsruhe at the opening of the demonstration trade fairs. "On top of this, visitors will be able to watch 55 exhibitors who are showcasing their products at their stands." As well as the open air exhibition area, some exhibitors also presented their solutions in the adjacent exhibition halls.



The twin trade fair was held at its location in Karlsruhe for the second time. Britta Wirtz opened RecyclingAKTIV and TiefbauLIVE together with the First Mayor of Karlsruhe, Gabriele Luczak-Schwarz, and representatives of the ten industry associations

supporting the event. At the official opening, figures from the worlds of politics and business discussed the new substitute building materials legislation in Germany and how it affects the use of recycled building materials in road construction and civil engineering.



Earth moving machinery sales boom worldwide

Sales of earth moving machinery in 2018 accelerated sharply, achieving growth of 23%. In total, 825,000 machines were sold in 2017, while 2018 saw sales leap to more than 1M units.

The record result in 2018 was driven by a combination of several factors, including investment in construction on a global scale in excess of €7,150B. This is highlighted by data provide by Prometeia for SaMoTer Outlook 2019, which was presented at Veronafiere during the 5th SaMoTer Day. The event is one of the stages in the run up to the 31st SaMoTer, the international construction equipment trade fair scheduled to be held at Veronafiere 21-25 March 2020.

2018 saw improved investment in earth moving. In most parts of the world, the market posted two figure

growth, attaining new historical peaks in the United States (+36%), India (+48%), China (+35%) and the rest of the world (+20%). North America and China were the driving forces behind almost two thirds of overall growth, with a combined market share of 50%, followed by Western Europe (18%) and India (7%).

Western Europe, with a growth rate of just 3% and 182,000 machines sold, experienced a slowdown, seeing a reduction of more than 3% compared to 2017. The market leader for sales is Germany (23%), closely followed by the United Kingdom (22%). In Central and Eastern Europe, Russia and Poland are the biggest markets, respectively representing 42% and 18% of market share. An evident downturn in growth in construction in France and the United Kingdom has affected

the figures, with Italy experiencing growth of 2.3% in total construction and 3.4% in residential construction.

A significant trend is emerging in mature markets highlighting a shift towards 'light equipment'. Light equipment, is also progressively becoming more significant in the Chinese market, with demand for mini excavators being almost 20% of the total, up from 10% in 2010. Global investment in the construction sector came to more than €7,000B, posting growth of 2.6%: a positive result but lower than the 3.3% figure achieved in 2017. India has established itself as a dynamic market, with 8.3% growth for total construction investment and 7.4% for residential construction.

The prospects for construction in 2019-2021 indicate moderate growth in 2019, with a gradual recovery starting from 2020. In Western Europe, the trend towards slower rates of expansion should prevail, while favourable prospects are more evident for countries in Central Europe. However, the Turkish market will still experience difficulties in 2019, not the least because of political tensions and uncertainties linked with investments. Broadening the horizon on a global scale, India is set to confirm its role as a driving force.

Prospects are more positive globally with estimated growth for 2020 and 2021, in particular, being 7% for both years. According to Prometeia, 2019 will however be a year of adjustment for the global earthmoving machinery market.





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IACDS celebrates its silver jubilee

2020 will mark the 25th anniversary of the International Association of Concrete Drillers and Sawers. A celebration will be held during BEBOSA the trade fair (26-28 March 2020) in Willingen, Germany. This exhibition brings together manufacturers and contractors from the concrete drilling and sawing industry, be-

ing organised in partnership with the FBS, the German association. On the 25 and 26 March during the show, the IACDS will celebrate its silver jubilee, with more information on activities organised by IACDS, such as dinners and board/assembly meetings, being available soon.



Steelwrist becomes a member of EDA

Steelwrist, the Swedish company that markets, develops and manufactures tiltrotators, quick couplers and work tools for excavators is now a member of EDA, European Demolition

Association. EDA is a leading platform for national demolition associations, demolition contractors and suppliers, with a strong focus on the industry's development in Europe.

DA INNOVATION AWARD 2020

Deutscher Abbruchverband e.V. (German Demolition Association) has awarded its innovation final degrees for the third time. Due to the previous high levels of participation in the DA Innovation Award in 2020, there will be an award granted for final degrees, aimed at new industry insights. Students of civil engineering, geology and other related fields of study, are invited to submit their graded final degrees if they are not 2 years or older, and can be submitted

from now until 13 December 2019, to the Deutscher Abbruchverband e.V..



EDA becomes member of ECCREDI

The European Demolition Association has become a member of the European Council for Construction Research, Development and Innovation (ECCREDI). This entity represents the principal interests within construction and brings together European federations to work together in effective construction research, technological and process development and

innovation. ECCREDI has among its members several European associations related to construction. These include, EBC (European Builders Confederation), FIEC (European Construction Industry Federation), ECCE (European Council of Civil Engineers) and ENBRI (European Network of Building Research Institutes), amongst others.



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