PROFESSIONAL DEMOLITION

NEXT GENERATION PENTRUDER, PAGE 68

VOLUME 19 • ISSUE No. 2 MARCH - APRIL 2019

boumo show issue

Special feature

NEW DEMOLITION EXCAVATORS

Page: 56

Reports

PDI MAGAZINE MEETS US MANUFACTURER MK DIAMONDS

Pages: 64-66

Reports

GERMAN DEMOLITION ASSOCIATION HOLDS 25TH CONFERENCE

ages: 80-84

News
TYROLIT AT BAUMA

Page: 88

SPECIAL FEATURE ON NEW HYDRAULIC BREAKERS

News

SCHWAMBORN TO PRESENT A GLOBALLY UNIQUE INNOVATION AT BAUMA

Page: 52

News
DR FRITSCH SETS
THE STANDARD IN
THE DIAMOND
TOOL INDUSTRY

Page: 102

BROKK HIRES SALES MANAGER FOR SOUTH AMERICA Page: 8 Special features NEW MOBILE CRUSHING AND

SCREENING EQUIPMENT Pages: 16-20

Business

Shows

EVERYTHING ABOUT BAUMA 2019

Pages: 22-28





Groove



Ø 15.0*40 bpm

Steel



Ø 10.2*48 bpm

Concrete



Ø 10.5*40 bpm

Finish



Ø 9.0*48 bpm



Professional Demolition International Magazine

SE-191 27 Sollentuna. SWEDEN

Visitors address: Skillingevägen 14A, SE-192 71 Sollentuna, Sweden

Telefax: ISSN Registration: ISSN 1650-979X

EDITORIAL STAFF

Editor-in-Chief

Assisting Editor-in-Chief Anita do Rocio Hermansson

Editor North & Central America

Editor South America

Editor Recycling: David Ehrenstråle, david@flaskborsten.se

Editor Asia Pacific: Barbara Grace,

Editor Russia & Eastern Europe

Editor Africa

SALES OFFICES

International Sales Director /BeneLux/Finland/France/Spain/Portugal and Italy

Phone: +7 921 949 27 81

Sweden, Norway & Denmark

North & South America, UK & Ireland

Dunay Associates
P.O. Box 119, Westwood, NJ 07675, USA
Phone: +1 201 781 6133, Fax: +1 201 664 1829

Australia/New Zealand/Asia Pacific/Korea/Japan and rest of the world:







86

88

99

CONTENTS

REGULARS

Editorials

6 Proud to say we have a real 'book' again Come and join the IACDS at bauma 8 Thinking upside down

Business

8 Brokk hires sales manager for South America Heidi Imboden appointed Steelwrist country manager for Finland

Jobsite Report

Pile cutting safe and efficient

94 10 40 years knowledge and strength Julie White honoured 14 New products from Blastrac 31 New from Hydraram 32 Atlas Copco launches Xc4004 New battery powered power cutter 34 RM sets new benchmark at bauma VTN Europe at bauma 36 New QAS 5 generators New 'Quick Cut' attachment from Wimmer Wimmer launches the 'Blue Badger' 39 Volvo looks to an electric future at bauma 2019 41 Allu to launch and demonstrate new products News from Sima AUSA DR1001AHG provides reversible driving 50 Rockster shows its latest developments 52 Schwamborn at bauma 54 Hycon beats pneumatic rock drills 68 Next generation of Pentruder is getting closer 70 New Cat GC S series hydraulic hammers 74 Husqvarna K770 VAC and K770 Dry Cut 76 Trailer sizing tips for excavators from Talbert Kubota wins award Doosan at bauma 2019 New locator device 78 Cat M Series Kemroc launches KDS range New CF130 and FMK2000 from Promove 79 New releases from NPK for bauma New London depot for Diaguip

Cat expands its mini excavator range

Hitachi looks to the future at bauma

Dymatec celebrates 25th anniversary

Kemroc launches ES 110 HD multi-purpose cutter

Tyrolit to introduce latest developments at bauma

Simex: form and substance on show at bauma



102	diamond tool industry
	Hartl announces new generation bucket crusher
104	Demarec at bauma 2019
106	Perkins at bauma Munich 2019
	New compact loader from Tobroco-Giant
109	Bobcat launches electric mini excavator
110	Komatsu PC490HRD-11
114	New mini hydraulic excavators
	Kemroc presents new ideas
116	Ramplifier sets new standards for the demolition industry
119	Keestrack electric drive technology
120	First from Tobroco-Giant
	New crushing bucket from Viper
	New generation of universal processors
122	New battery powered LED light tower
	Kubota to exhibit large range at bauma 2019
	State of the art coring from Baier

Dr. Fritsch sets the standard in the

Reports Four years of Dr. Schulze's Czech factory

102

12 58-61 AGP: a power that comes from the East 64-66 MK Diamond: a 150 year journey and counting 72 10,000 Bobcat E10 mini excavators in 10 years 80-84 German Demolition Association holds 25th conference 90-92 European water jetting forum meets in Brussels 112 Avant Tecno gets ready for bauma

22-28 Record numbers of exhibitors for bauma 2019

Special Features

16-20 New mobile crushing and screening equipment at bauma 2019

43-48 Break time

56 Demolition excavators

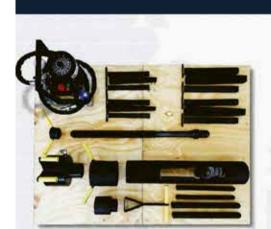
HMP & HMXP

X PROFILE TOO



SPECIAL TOOLS





The New Bushing Changer for hydraulic breakers

The new KCB 0.2 is the device for changing the wear bushing of the hydrautic breakers. It is patented device, entirely designed and constructed from Corimag RED department. With this equipment, the downtime of the breaker is reduced from two days to about 1 hour. Just 1 tool to remove and replace the bush directly on site without dismantling and without moving the hammer.

The KBC-02 is suitable for all brands of breakers from 500 Kg up to 10 tons.



TECHNICAL INFORMATION

ANTI-SEIZURE LOW-GRIP

There is not any surface treatment. To obtain the hardness that prevents the welding and sets in between the tool and the bushing, some parts are hardened. No special requifor working tools; they have to be standard as for hardness and surface roughness.

These special bushings are mainly used for heavy hydraulic breakers and they give several афинари;

- Reduction of the friction between the tool and the bushing
- Reduction of the temperature with improved performance of the grease
- Increased efficiency of the breaker
- Drastic reduction of breakages due to leverages.

BUSHINGS



produced according to our specification. The self lubricating properties are given from the graphite contained in the material, which helps to hold the greese in the structure of the special alloy. The main advantage is that the wilding with the tool, normally caused by pressure and heat, is avoided. This thanks to the special alloy moneral of the binbing, which has very low ability to be wolded with the sixel of the tool. The grease to be used is the one specific for the breakers (Ou, MoS2), but in limited quantity







Come and join the IACDS at bauma

Words from the IACDS President

It's so exciting that bauma is here again,

and what a fantastic showcase for our

industry, with all of the skills and ad-

vanced technology it takes to ensure we

provide the services to our clients around

the world it is. As all of you know, I am

so proud of the work we do as individual

businesses, but also in the way we come

together as an industry to share best practice and celebrate everything that is

from that point of view, as we are a com-

munity. I wrote in my last column about

how we should aim to be collaborators in

every way we can, and I do believe that

is something we are very good at and, by

remaining a unified voice, we are much,

much stronger for it. Certainly events

like bauma bring us together, and it's an

event I very much look forward to every

three years. This year's event is set to be a

really exciting one, and even bigger than

ever before with an estimated record

achievements we've made as an indus-

try, and how all the industry country

associations have pulled together over

the last three years in the same direction

to make the IACDS work and bond us

all together internationally. But it is not

just the work that the associations have

done, but the successes of individual

companies that we are here to celebrate

bers of entries (and countries) for the

Diamond Awards 2019, which is a great

example of how we can showcase the

best of what we do, and learn from one

another's best practice. It's also great that

we have our first ever Supplier Award to

celebrate innovation and ideas in our in-

dustry. So I am looking forward to seeing

all the participants and winners during

bauma, and being able to showcase their

work to rest of the industry and to the

The IACDS has had record num-

It's also chance to reflect on the

600,000 participants - and that's big!

I really feel we are a special sector

great about what we do.



Proud to say we have a real 'book' again

I have been working as publisher since 1995, but already by the end of the 1980s, I had worked as a journalist covering the transport, building and construction industries. During the 1980s and 1990s, the trade magazines looked different when compared to today. The biggest difference was the number of pages. I had been very impressed by some trade magazines with their show issues for exhibitions like bauma, which were more like books then magazines, comprising of around 100 pages and were 'perfect bound', not stitched. A long time ago PDi Magazine was so produced, but to have more than 100 pages is quite a rare occurrence today for a compact magazine like PDi.

Our bauma show issue is always a 'BIG' issue, and often a real 'book', and this is no different. The bauma show issue that you are holding in your hand has 120 pages, and is our biggest issue ever. Even though digitalisation is playing an increasingly larger role in publishing nowadays, which we also have completely adapted to, printed magazines still have a massive role to play. This is particularly so in fields such as demolition, concrete cutting, concrete floor grinding and recycling, but also applies to general construction. I think this has to do with how different sectors of professionals wish to access industry relevant information.

If a business is concerned with, for instance, IT, Economics or similar, then maybe the information channels are more internet based. The construction industry still likes the traditional information channels through printed magazines, and these are still dominating the media, and will for some time continue to do. However, all our content and reports can today also be read online as text documents and pdf files. Furthermore, all our stories are emailed as newsletters to a great number of subscribers. So in fact it is quite difficult to miss any news from us.

This bauma show issue is really packed with information about new products to be released at the show. If anyone has missed it, bauma takes place between 8-14 April at the Messe München exhibition centre in Munich, Germany. There are over 3,990 companies exhibiting this year on 614,000m² of exhibition space, making it the largest exhibition in the world in terms of exhibition space. PDi Magazine will of course be exhibiting as usual, together with our US sister magazine, PDa, in hall A1, booth 136 (opposite Husqvarna).

Besides a vast number of news releases in this issue, you also find a large feature on the bauma show, including a selected list of exhibitors, with their booth number related to the sectors PDi covers. If you are working in these fields, the only thing you need to navigate the show is this issue of PDi. But everything in this issue is not directly related to the bauma show. We have also compiled a number of business briefs, site reports, company profiles, and much more besides. This includes a number of special features such as mobile crushing and screening, new hydraulic breakers, and an in-depth review of the most recent German demolition conference in Berlin.

> There is also a report on the Water Jetting Forum in Brussels, a report on Avant Tecno's recent press event in Finland where a number of new products were revealed, plus other

bauma, I would like to remind you to stop by our booth 136 in hall A1 to meet up with the PDi and PDa staff. You'll be sure of a warm

My advice to the companies that do pick up an award is to make the most of the opportunity to shout about the fantastic work that you do. D-Drill picked up a Diamond Award a few years ago - long before I was in this role - and we

made sure that we used that accolade to generate positive PR about the company back in the UK. It's a big deal; this is an international award, so ensure that you tell your clients, suppliers, partners, staff and the media. And, if you don't win, still ensure that the story behind your entry is something you tell to as many people as possible. These are special achievements and should be celebrated. Don't let concrete cutting be the world's best kept secret any longer, but be part of the team that tells everyone just how fantastic we are!

There will also be a networking event showcasing all the job stories, and then the Diamond Award Ceremony which will take place from 4-6pm on 11 April, in Room B11, Pavilion B1. We believe this is going to be the biggest ever networking event of its type for our industry, so come and drink a beer with us and see what we are all about. Again, make the most of this chance to network and meet as many people as possible from the industry. There is so much we can learn from one another and so many ways we can grow by listening to what others have achieved. And, not only that; our industry is full of great people who are really knowledgeable, ready to share their experiences and are good fun, so it will be great to catch up from that point of view, and make new friends and contacts from all over the world.

The fun won't stop there, as there will be dinner in downtown Munich on the night of 13 April and then, on 14 April (before the Diamond Awards), the annual meeting will be held close to the show at the Novotel Hotel Muenchen Messe at 9am.

My final message is a plea: please, please come and find me during bauma and let's have a chat about the industry, what we are doing well, what can do better and how we can always be more relevant to you. I am very approachable and am keen to meet as many people as possible. And let's make sure it's another brilliant bauma and remember how much stronger we can all be by working together.

> Julie White. President of IACDS iuliewhite@d-drill.co.uk



stories and items of interest. Again, if you are attending

Jan Hermansson Editor-in-Chief jan.hermansson@pdworld.com







introducing

ELITE

A NEW GENERATION OF LAVINA GRINDERS





DUST SUPPRESSION MISTING SYSTEM



DUST-PROOF Grinding Head



INTEGRATED WEIGHTS



LED LIGHTS IN FRONT AND BACK



NEW ADJUSTABLE HANDLE BAR



PHONE STATION AND CUP HOLDER

Words from the EDA President

THINKING UPSIDE DOWN

Demolition is a word that doesn't seem before demolition and renovation works to be liked by many people. Outside the industry, it means 'to destroy', and brings things such as rubble, dust and noise to mind: things people don't want to be associated with. So, it is more common is true: using this word makes us think 'upside down', starting at the end of the process.

working group, organised by the Euroand renovated commercial, residential and public buildings. The key is to stay one step ahead, think about how to reuse the future waste materials, before designing and making decisions concerning construction materials.

That end goal needs a change in the mentality of designers, manufacturers, contractors, authorities, and users to a view to the future, not just thinking about the present or the short term. This way, it will be possible to reduce the overall environmental impacts throughout the life time of the resources, and improve the building's life cycle. To achieve all this, it is mandatory to spread usable and reliable information and defined indicators that can stablish a complete plan of construction, in the frame of the well-known 'Circular Economy'.

Because of this (and for many other reasons), the EDA is actively involved in the creation and improvement of legislation in which the European Union works, related to the removal, depositing, and recycling of demolition debris. Some examples of EDA's involvement are the EU Construction and Demolition Waste Management Protocol, and the EU Guidelines for waste audits of buildings. Both publications are the result of our participation in several workshops to define and create consul-

In conclusion: if we want different results, we don't have to do the same thing over and over again. Or, paraphrasing Albert Einstein: "Madness is

About EDA

info@europeandemolition.org www.europeandemolition.org



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



PDi business



Brokk hires sales manager for South America

Demolition robot manufacturer Brokk has sold its products to the South American markets for decades. But the company has never had its own sales office in South America. Instead sales have been handled from Brokk. Inc. in Monroe, USA, Now however Brokk has opened its first subsidiary in Santiago de Chile, Chile, hiring Richard von Harpe as its area sales manager for Latin America and as its country manager for Chile.

PDi Magazine met Richard at the Brokk booth at World of Concrete in Las Vegas together with Brokk's sales director Joakim Furtenback. Here we discussed Richard's background, finding out that he has over 13 years of experience in selling technological products, services and solutions for the food, mining and construction industries, among others. He also has experience in managing global relationships, exporting, international business and new market development.

There is no doubt that Richard has a positive attitude and the right motivation for the job. He thinks that the reason why he is the right person is that he is very communicative. and his way of combining logical and abstract thinking. He has proven track record of developing high performance multi-discipline teams in Latin America, Canada, the United States and Europe, becoming what he feels, is a genuinely trusted advisor to his customers and colleagues.

Richard is now based in Santiago de Chile, has been married for 11 years and has two daughters, 9 and 6 years old. He speaks Spanish, English and German fluently.

"I am very pleased to join the Brokk team. I clearly can see a bright future for Brokk in Latin America and there is a lot of potential to be developed. Our goal here in Latin America is to offer a premium experience to our customers delivering the best quality products and services, sharing the same ambition to be the leading player in our respective fields."

www.brokk.com



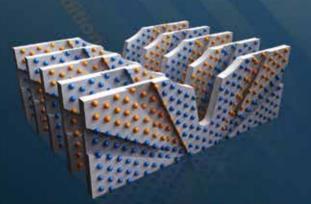
Heidi Imboden has been appointed as the Steelwrist country manager for Finland. With a background in the construction equipment industry including several leading positions in industrial companies, the addition of Heidi to the Steelwrist team is an important step in reinforcing the company's market position in Finland. "We are very pleased to see Heidi take on the position as country manager. Heidi will be leading Steelwrist's growth together with the local team in Finland. This is a very customer oriented task and where Heidi's personality and previous experience will fit perfectly," says Steelwrist sales director Richard Aulin.





ZENESIS.

WORLD'S MOST ADVANCED PATTERNED DIAMOND TECHNOLOGY



NEW R+ PLATFORM

The edition R^+ is the optimized platform of edition R combining with alternating diamond layers. It reflects customers' demands and leads to the extreme performance and stability.













for excavation and demolition, and has been operating in the field of demolition for over 40 years. In the 80s the company began to export and grow internationally, and currently exports its products to 50 countries all over the world, in particular to the European Union, Africa, the Middle East, the Americas and Australia.

Technical processes

Production is characterised by high-tech design, with a team of technical experts constantly engaged in R&D to improve the entire production process, thus making products more efficient and competitive. The workshop is equipped with specialised equipment that guarantees the conformity and precision of each and every part manufactured. Raw materials are chosen with extreme care, with particular attention given to the manufacturing process, heat treatment and more generally to the company's quality system. These factors enables Idromeccanica Italiana to manufactures hydraulic breakers, hydraulic compactors and other demolition equipment and interchangeable spare parts for the most common hydraulic hammers on the market.

Idromeccanica Italiana was one of the first companies in its field to obtain the UNI EN ISO 9001 accreditation and is currently certified to ISO 9001: 2015. The company is located in the industrial area of Molfetta, Puglia, in a 10,000m2 complex with about 40 employees working in production, design, quality controls, logistics, sales and administrative roles.

IMI hydraulic breakers and vibrating plate hydraulic compactors

The company's IMI hydraulic breaker range currently consists of 20 models available in different versions, with operating weights from 80kg up to 3,000kg, being suitable for mini excavators, backhoe loaders and excavators from 0.7t to 50t. They are used for many types of work: excavation, foundations, demolition of concrete works, quarrying, tunnel excavation, canals, removal of foundry slags, and the reduction of blocks in agricultural land that have to be cleared as well as many other uses. The breakers can be equipped with optional extras that allow the breakers to work underwater, with silenced versions also available in order to operate in urban areas.

The company's range of hydraulic compactors currently is made up of three models, weighing from 170kg to 900kg, for machines from 1t to 20t. They are used mainly to compact excavation filling materials, consolidate slopes and prepare a solid base for road paving and for many other purposes.

Spare parts (aftermarket service)

Idromeccanica Italiana produces a wide range of compatible and perfectly interchangeable spare parts for hydraulic breakers of all brands. These include: Allied, Atlas Copco, Chicago Pneumatic, DNB, Furukawa, Hanwoo, Kent, Krupp, Montabert, Npk, Okada, Rammer, Soosan, Toku and many others. Idromeccanica Italiana can also manufacture and supply spare parts according to customer samples or technical drawings as well as grind cylinders and oversized pistons.

Julie White honoured with a lifetime achievement award

Julie White, the managing director of specialist concrete drilling, sawing and controlled demolition company D-Drill, has received a lifetime achievement award which was presented at the Builders' Conference Live Awards. The Builders' Conference is the construction industry's trade body that provides up to the minute statistics and potential contract leads to companies across the UK.

Julie, a former UK businesswoman of the year, was presented with the award by broadcaster and event host Mike Shaft during a ceremony at The Savoy in London. In announcing Julie as the winner he said: "This award goes to someone who works tirelessly to improve the

image of the construction sector, and who is a shining example of how sharing best practice and knowledge can benefit everyone. With an absolute passion for what the sector should be doing to encourage more young people to consider construction as a career, she is committed to delivering the very highest standards of health and safety through a skilled workforce.

"Recognised for being an innovator and pushing for efficiency through technology, her enthusiasm to drive positive change is evidenced by her company's successful training and apprenticeship scheme. We're delighted to celebrate the achievements of Julie White, managing

> director of D-Drill, and we are sure she will continue to innovate and inspire future generations in the construction industry for many years to come."

Julie completed a management buy-out of D-Drill from her father a decade ago, and since then has gone on to become a leading figure in the construction industry. Under Julie's watch, the company has added further divisions in 2D/3D concrete scanning, floor preparation, fire protection as well as inventing a new D-Kerb machine that can cut kerbs to 450 in situ. She is the first woman to be appointed to a professional body for the industry, having joined the board of directors for of the Drilling and Sawing Association, and is also president of the world association (IACDS) - the first woman ever to take up the post.

In 2018 Julie was selected to sit on the Construction Industry Training Board's (CITB) England Council having shown a huge commitment to training and apprenticeships, spending five times the industry average on training (currently, 45% of the D-Drill workforce are either undergoing or have completed an apprenticeship with the company). She is a previous chair of the National Specialist Contractors' Council's (NSCC) training committee, and was part of the group that formed BuildUK, sitting as a director on the main strategy BuildUK board. She is also chair of the BuildUK CITB steering group.

Julie said of her award: "This came as a complete surprise, and I am delighted and humbled to have been honoured in this way. Since taking over D-Drill ten years ago, I have focused on diversifying the business, but also in ensuring that we contribute to the industry as a whole in the UK and globally. I have been keen to speak up on serious issues in our industry, but also to really sell what we do in the hope that the next generation see what a fantastic career choice this is.

"I've enjoyed being able to shout about the construction industry in the national media because I believe we work in an amazing field that needs to be recognised and celebrated. Despite this being a lifetime achievement award, there's still plenty of life in me and I've got no plans to retire just yet!"





Proudly produced by Dr. Schulze in EUROPE



THE PROFESSIONAL'S CHOICE



SCAN FOR MORE INFORMATION



www.dr-schulze.de

Werk I / Factory I Bollenberg 10

D-57234 Wilnsdorf Tel. +49 (0) 2737/5953-0 Fax +49 (0) 2737/5953-3

Werk II / Factory II

Gewerbestr, 9 D-39291 Moeckern/Theessen Tel. +49 (0)39223/620-160 Fax +49 (0)39223/620-186



/DrSchulzeGmbH

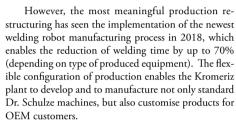


The rapidly changing global economic situation has strengthened the position of construction equipment manufacturers with European based production facilities, and improved their competitivety against Asian producers. Optimistically looking to the future, Dr. Schulze in 2015 opened a new factory for the main production of its light construction equipment.

The new factory is located in the city of Kromeriz in the Czech republic. It is famous for its UNESCO listed gardens and castles and possesses excellent infrastructure with various component suppliers and a qualified

In the last 10-15 years much European production of light construction machinery has been relocated to Asia. Dr. Schulze has moved against this trend by not only the enlarging the company's production capacity but also by extending European manufacturing. During the last four years of continuous expansion of its Czech plant, Dr. Schulze has made significant investment in order to enlarge

manufacturing, to improve the finishing of the produced equipment and to shorten the delivery times. The factory has been equipped with milling and turning CNC technology for the high precision processing of bulk parts and a powder coating line, which ensure long rust free life of all produced equipment.



Going hand in hand with the restructuring and enlarging of production facilities has been the development of new types of equipment, as well as continuous improvement of existing models. For bauma 2019 Dr. Schulze will present to visitors to its booth in hall A1 the completely reworked and extended line of light construction equipment entirely made in Europe.

Amongst the product highlights for bauma includes Dr. Schulze's brand new DBF-380 dual function scarifier, capable of working with up to Ø 280mm 50 diamond blades with a cutting depth of up to 30mm, and working width of up to 380mm. This enables the removal of several centimetre thick concrete layers in a fast and cost efficient way.

Also new is the electric floor saw FS-800 EH which replaces the well-known FS-800 EHH and offers its users improved working comfort, higher productivity and reduction of maintenance. The latter being due to a hydraulic system for cutting blade lowering, which is not typical for this class of floor saws. The height of the handles of FS-800 EH remains constant for any position of the cutting blade, which ensures convenient operation over a longer period of time.

Dr. Schulze welcomes bauma visitors at its usual stand which is located in hall A1, booth 149 (next to the west entrance).



Automated Pile Cutters

Improved occupational safety

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

Excellent quality cuts

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

MotoCut Pile Cutter for concrete piles



MotoCut Plasma Cutter for steel piles and pipes



Motocut Concrete Pile Cutters & Steel Pile Cutter



Q-350 Up to 350mm (14")



Q-400 Up to 400mm (16")



Q-350SFull cut up to 350mm (14")



Q-500SFull cut up to 500mm (20")



P-400 Steel piles and pipes Up to 400mm (16")



Blastrac will show a number of the new products at Bauma in April. Among others they will show their new large ride-on grinder, their new ride-on multitask vehicle, their truck mounted shot blasting system, their new truck mounted UHP water blasting system.

The Blastrac indoor booth will be dedicated to the smaller machines where they will introduce a new walk-behind floor stripper. Blastrac will carry out live demonstrations on their outside booth. You will find Blastrac in hall A1 booth 414 and outside in booth 12A.10.

Large scale ride on floor grinder

The new Blastrac BMG-2200 is a large scale ride on floor grinding machine, designed for large horizontal surfaces. With two drive wheels fitted to the front and a swivel castor to the back, this makes the machine very manoeuvrable both on and off jobsites. It is both effective and ergonomic to operate, with the operator sitting on a comfortable 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 which makes it suitable for every jobsite. It is designed with an integrated powerful dust collecting system with HEPA 14 filters, which makes 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 preseparator.

New scarifier

Blastrac is also showing the new Blastrac BMR-75D which features an enhanced trouble free hydraulic drive system, offering better productivity when cleaning and preparing concrete or steel surfaces. Due to the fact that the BMR-75D can fit several attachments, it gives the user a lot of flexibility to satisfy the needs of the job in hand, whatever it may be, whether it is shot blasting or scarifying. The BMR-75D multitask vehicle is also ideal for ship decks, parking garages, bridges, roads and warehouse floors.

'Cyclone' cleaning trucks

Blastrac is also showing its cyclone cleaning trucks. Blastrac cyclone technology surface cleaning machines are engineered to deep clean outdoor surfaces more efficiently and in a more environmentally friendly way than other UHP water blasting technologies. A multi patented cleaning and recovery head aggressively cleans and removes build up with no damage to the surface. The multi patented 'Cyclone' cleaning head provides high velocity air movement for instant recovery of waste and water, with no runoff or spillage into the environment, and no need for an external vacuum system. This process allows for a much more fuel efficient recovery of water from the cleaned surface than a system with an external vacuum. The results are a clean surface without standing water that is ready for immediate use.

New Blastrac single phase dust collectors

Blastrac has developed a new range of single phase dust

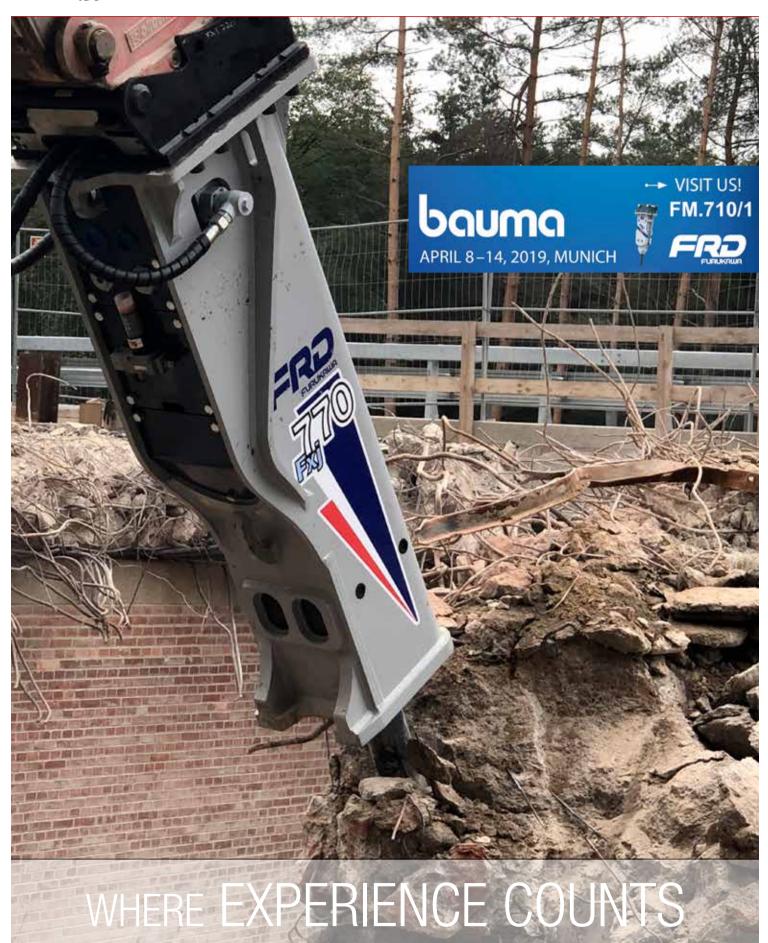
collectors. With this new line of dust collectors Blastrac aims to meet customer expectations from an industrial dust collector, professional end user perspective. Equipped with an M-class or H-class certified Longopac bagging system, for small or big jobsites, the dust collector is designed to meet all needs. The new line of single phase dust collection systems 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). Depending on the type of dust to suck up, the right type of HEPA filter will ensure the highest filtering efficiency, therefore delivering the highest levels of operator safety.

www.blastrac.com









New mobile crushing

There are quite a number of new machinery developments for mobile crushing or screening of demolition debris being released this spring. All of these will be exhibited at bauma in Munich. Vito Hermansson reports on some of the latest developments.

Keestrack

Keestrack will display nine tracked processing plants for minerals, recycling and quarrying, with the company's leitmotif being cost effective hybrids and plug in electrification of plant drives. Amongst these are a track mounted jaw, impactor and cone crushers, as well as diesel electric full hybrid plug in systems.

The jaw crusher Keestrack B7e uses the single toggle jaw crusher CJ 412 with a 1200mm x 830mm inlet for feed sizes up to 70mm and a wide, hydraulically adjustable CSS range of 75mm-250mm. The crusher is driven by a 132kW electric motor, with another 55kW electric motor powering the hydraulic system for the tracks, lifting cylinders, vibrating feeder with two deck pre-screening and conveyors. The entire diesel electric power is delivered by an on board Volvo diesel, optional 273kW (EU IIIa)/285kW (EU IV), and on board 330kVA generator. The plant has a total weight of just under 69t (with options). By detaching the 6m3 feeder unit including pre-screen, the weight drops below 60t.

The full hybrid cone crusher Keestrack H6e has a maximum feed size of 215mm, variable crushing chamber configurations and stroke settings (CSS: 6 mm-44 mm) and a specially adapted Keestrack KT-H6 (based on proven Sandvik technology) and processes up to 400 t/h of various materials. The e-motors for the crusher drive and plant hydraulics (220kW / 2 x 30kW) and all other directly electric driven components are powered by a detachable diesel / generator module

(345kW / 500kVA) or plug in via the mains or an external gen set. The large cone has a total weight of 62t with all options, 51.5t without final screen. The impact crusher R6e is compact, mobile and has a double prescreen and double deck post screen module, including oversize recirculation. Despite extensive electrification (including the 970mm x 1300mm crusher at 250kW), a hydraulic system (2 x 55kW), conveyor drives and ancillary units, the 62t plant can be disassembled with the optional dolly system.

Keestrack will also display its fully hybrid impact crusher R3e with single deck post screen and oversize recirculation (total weight 32t), introduced last year. Also on show will be the jaw crusher Keestrack B3e with a new independent pre-screen. The electric driven double deck unit (1.6 m² and 1.2m²) optimises efficiency and wear of the 1000mm x 600mm jaw crusher, and is said by the company to be the largest unit within the 30t class. The electrical equipment of the predominantly diesel hydraulically driven plant includes a 42.5kVA generator for all conveyor drives and ancillaries, and 16A plug out connection for downstream screens or stackers.

New to the company's 'e-programme' is the scalper Keestrack K6e with 8m3 standard feeder, 4500mm x 1800mm double deck screen box (2 x 8.1m2) enabling the nearly 30t plant to produce three fractions at 600t/h. It can be adapted to process a wide range of materials and applications with a variety of screen media and additional equipment. A full hybrid screen solution

> for economical semi stationary operation from the mains is the Keestrack K5e 'Flip Flow' (approximately 29.5t). The specially adapted 'Bivitec' technology in the large double deck screen box provides a wide range of applications for economic recycling of residual materials (glass, wood, slag, etc.) or the processing of difficult materials with high basic moisture content. The flexible screening equipment also allows the efficient and economical production of minimum grain sizes of (minus 2mm), the handling of hot materials (e.g. slag) or generally the production of large quantities of mineral products (up to 450t/h).



Keestack's brand new emission free stockpilers will also be presented in Munich. The semi mobile electric feeder / stacker S1e is installed on a height adjustable





and screening equipment at bauma 2019



pedestal with lifting and 180° swivel hydraulics. The light 10.2m belt feeder (5.45t) conveys up to 280t/h of sand or gravel, (max. size 200mm) and creates 'kidney'

shaped stockpiles up to 2,900t. Keestrack's S5e 'Solar', a direct solar driven processing plant, has photovoltaic modules mounted above the 23m long conveyor feed and a 23kW battery installed in the chassis. The battery powers all electric driving, lifting and conveying functions. In case of bad weather or intensive continuous operation, the system can be powered or recharged via available external sources, such as upstream diesel electric crushers and screens or via a mains plug in. Keestrack will be located at the outdoor area North, stand FN1017/1, at bauma 2019.

www.keestrack.com

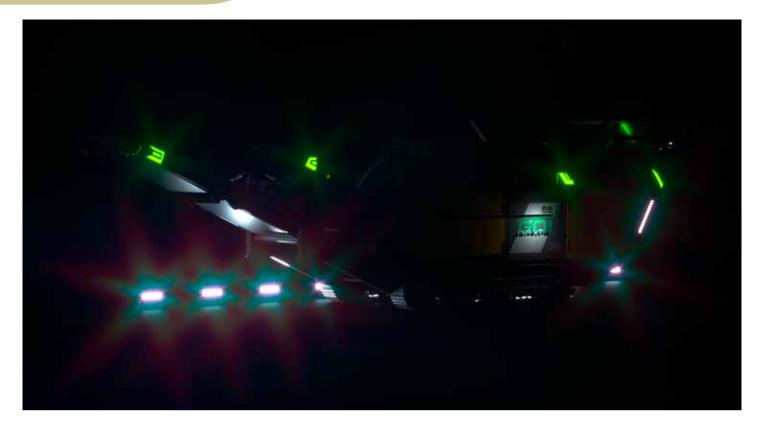
Arjes

Arjes will present it Impaktor 250 EVO shredder at the Munich show. The unit combines new track technology and a hook lift featuring a quick change shaft system. It includes a new control system as well as a new shaft design that expands the range of applications of the shredder. Arjes' vision is that the Impaktor will not only be a machine for processing minerals, but also for shredding waste, wood, scrap wood and tyres, to name but a few. The shredder comes with an extended warranty and

cost optimised wear packages, as well as a reduced price. Additionally, Arjes will display its larger brother, the VZ 950 Titan shredder. Arjes' shredders will be located at the outdoor area North 1017/9 at bauma 2019.

www.arjes.de





Rubble Master

The Austrian manufacturer Rubble Master will present to bauma visitors the ongoing development of its RM GO! brand, the RM GO! Next. In addition to a fully integrated hybrid drive for crushers and numerous digital features, RM will also be launching a first for mobile screens.

The new crusher RM 120GO! has a fully integrated hybrid drive and combines the advantages of diesel driven and electric powered crushers without increasing the size of the machine. The base frame has been slightly modified to make room for the electric motor and the weight of the crusher increases by 500kg with the electric motor. The RM 120GO! also features a more powerful generator and a 50% larger diesel tank.

With RM GO! Next, the crushers and screens communicate with the user, either directly using light signals or via the RM GO! Smart app. The RM crusher now has a new appearance based on a lighting concept with the machine communicating with the operator by emitting light signals, meaning that the operator is able to remain outside the machine's danger area while its processing. Additionally, details of the performance of the RM crusher can be read in real time, using the RM GO! Smart app. Throughput data from several weighing points can also be integrated using belt scales and these can be reset directly using the app. The total throughput, and proportion of the screened aggregate serve as an indicator as to whether the crusher is operating at full capacity, with daily reports and error code routines also included as part of the digital service.

Lastly, Rubble Master will present an innovative screening system, exclusively at bauma. This new screening system, which Rubble Master describes as 'an absolute world first in the screening sector', has been developed together with the Northern Irish company Maximus Crushing and Screening Technology, a company owned by Rubble Master since 2018. Visitors are invited to meet Rubble Master in hall B2 and booth 236.

www.rubblemaster.com

Metso

Metso's Lokotrack Urban LT106 has been developed specifically for crushing in densely populated environments. It delivers up to 60% better noise protection, as well as reduced dust emissions, making it easier for users to obtain an environmental permit. The Lokotrack Urban series was developed to enable the running of crushing operations in the most heavily regulated urban locations, with the obtaining of environmental permits often a challenge when crushing in these densely populated areas. The new Lokotrack Urban series however makes operations much easier, minimising the impact on people living and working around sites.

Environmental permits are usually based on the noise level caused by the crushing operations, with noise levels of 85dB being the most commonly defined limit that requires ear protection, with even lower levels being disturbing for people living around crushing sites. With the Lokotrack Urban LT106 patent pending solution, the distance drops by approximately 60%, from 23m -25m to 9m-11m. Outside a protected area, this distance can be even more significant, making a big difference for those experiencing crushing

operations. In addition to low noise emissions, the Lokotrack Urban series includes a very advanced dust suppression system. The dust is funnelled to stay inside the mobile crushing plant with a high pressure water spraying system absorbing dust particles from the air. The Lokotrack Urban series includes crushing plants that are easy to move, with environmental features integrated into the mobile plant, thereby requiring no special attention or maintenance. This enables recycling in an urban environment, with aggregates often being able to be used in the same location with hauling away often being avoided completely.

The Lokotrack LT106 itself is a primary crushing plant for recycling or processing rock based material. It can be used as the first unit in a multistage crushing process or a standalone unit in reducing applications. Material is fed onto the feeder by an excavator or wheel loader. The two stage scalping section removes the fines, which can be guided into the main conveyor or side conveyor. Output material size is controlled by the crusher setting, with the crusher being hydraulic driven to ensure trouble free operation.

www.metso.com





Turbo Roof Top



EDIA, Straight, Dry



Split Roof Top

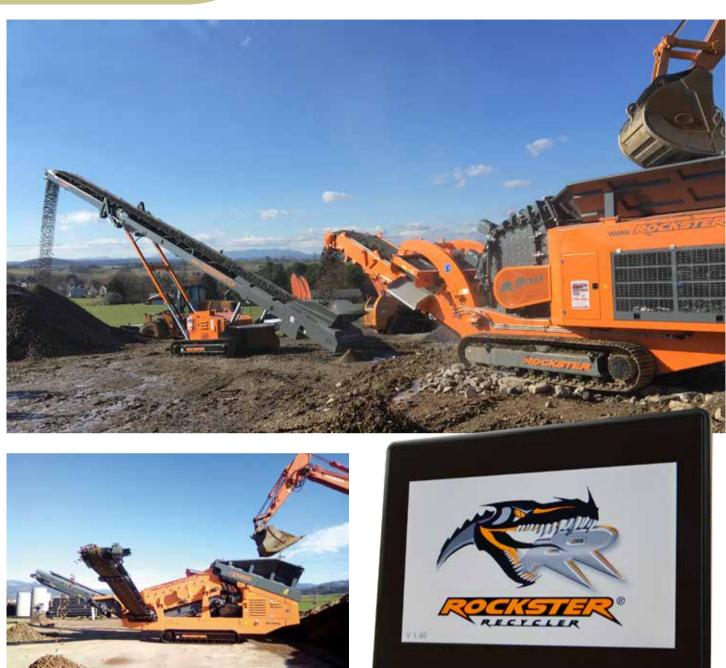




Tel: +49 (0) 6196 96 79 010 | Fax: +49 (0) 6196 96 79 015

HSD Europe GmbH | Mergenthalerallee 77, 65760 Eschborn, Germany | Email: info@hsdeu.com | www.hsdeu.com

PDi special feature



Rockster

Rockster will present R1100DS, its most powerful mobile impact crusher with emissions technology. The machine combines the Rockster developed, patented systems 'Duplex' and double functional return / stockpile belt. As of this year, it will also be equipped with a Cat C9.3B EUR5 engine. The R1100DS will be displayed in the open area in front of the B2 hall / gate 7 (booth no. 12B/2) at bauma in Munich, Germany.

Another new development, also presented for the first time at bauma, is a 'Machine Monitoring System' (MMS), which will be available for all mobile crushers as of 2019. Rockster customers can query anytime, from anywhere, via smartphone, tablet or notebook the relevant or selected information about their machine. The MMS also offers the possibility of remote maintenance which minimises any possible downtime. It is controlled by a multifunction colour display with scratch resistant touch user interface.

Rockster's mobile 2 deck scalping screen RSS410 will also be displayed at bauma. It offers what the company says is the longest screenbox in the compact screening segment, and can be used either as an individual machine, or to produce 3 final grain sizes. It can be utilised as a pre-screen before the crusher for the production of 2 additional defined grains, or as a final screening unit after the crusher to separate the crushed product into 3 final grains. In addition to the efficient separation of natural stone and building materials, the RSS410 can be used for separation of coal, metal and topsoil. Beside various scalping screens, Rockster also has in its product line tracked mobile 2 or 3 deck finishing screens and track mounted or wheeled trommel screens. Engines from Stage Illa to Stage V are available for these

machines. The RSS410 will be exhibited at booth no. 12B/6 at bauma.

To complement the impact crusher and the scalping screen, Rockster is also exhibiting the track mounted stacker RST18 which is available in 4 different lengths, from 15m to 30m, and can be obtained with Stage Illa to Stage V engines. The use of the stacker makes it possible to increase daily production capacity while at the same time reduce material handling costs, and will be shown at booth no. 12B/2 at bauma.

Finally, visitors to bauma will have the opportunity to view the mobile impact crusher R1000S from an unusual perspective. Rockster's stands will be located at in hall B2, booth 214 and at the outdoor area in front of hall B2 / gate 7, booth numbers 12B/2 and 12B/6 at bauma 2019.

www.rockster.at



en.shinhandia.co.k



SINCE 1978

ORIGINAL DIAMOND TOOLS

The First Technology In The World.





OPTIMIZE DIAMOND ARRAY WHERE WE WANT IT!

ARIX Technology allows you to optimize diamond particle array for the fastest speed and longest life.



From the 8 - 14 April bauma 2019 will be held at Messe München in Germany. 3,990 companies from more than 55 countries are set to exhibit at the 32nd edition of the world's biggest international trade fair for construction machinery.



The bauma construction machinery trade fair began in 1954 with 20,000m² of exhibition space. Since then, it has grown to encompass 614,000m² of space, covering amongst other things, demolition, recycling, concrete cutting, concrete floor grinding and polishing as well as related services. In the hall A1 diamond tools, concrete sawing and drilling, floor grinding and polishing, dust extraction units and air cleaners, hydrodemolition equipment and standard equipment in demolition will be presented. Heavy duty demolition attachments, demolition carriers, and various kinds of recycling units are spread out in the other halls and outside. The current issue of PDi Magazine provides an excellent guide for the location of companies in these sectors.

For nigh on 20 years, bauma has been held in Munich's old airport, and as of 2019 includes 18 indoor halls and an outside area. Other than the

exhibition in Munich, there are also bauma shows in China, India, Africa and Russia. The whole industry is growing something that is reflected in bauma's own growth through the years, with this year's fair over half a million visitors being expected. "We've taken account of the rise in demand and expanded our site in eastern Munich to 614,000m²," says Klaus Dittrich, chairman and CEO of Messe München. "Our aim is to offer a platform to as many exhibitors as possible. With bauma 2019, we continue to surpass ourselves." Also for the first time, visitors will be able to experience the industry 'virtually' thanks to augmented and virtual reality. bauma is also expecting to attract more exhibitors with the new concept 'bauma PLUS', which goes beyond traditional booths.

Amongst other attractions at the show, the International Association of Concrete Drillers and Sawers,

IACDS, is presenting its Diamond Awards at bauma. These being internationally acknowledged awards for concrete sawing and drilling. The winners will receive an award and an invitation to the annual IACDS event, with the ceremony being held on Thursday 11 April. Before the ceremony, there will be a networking event held in room B11, pavilion B1.

This issue of PDi features extensive information about new products to be exhibited at bauma. There is also an exhibitor list with a selection of exhibitors of interest to anyone involved in demolition, recycling, concrete cutting, diamond tools, concrete floor grinding and polishing, etc. You will also find plans of the exhibition areas in general and one of the A1 hall in particular. We at PDi Magazine look forward to meeting you at our booth A1.136.

www.bauma.de

BLASTRAC



THE **ART** OF SURFACE PREPARATION

BLASTRAC IS THE LEADING INTERNATIONAL DEVELOPER AND MANUFACTURER OF SURFACE PREPARATION EQUIPMENT





SHOT BLASTING
TO CLEAN AND RETEXTURE
CONCRETE OR ASPHALT





SCARIFIERS
TO LEVEL LARGE SURFACES OR
REMOVE THICK COATINGS



>

STEEL BLASTING
TO REMOVE COATINGS, RUST & PAINT
FROM STEEL SURFACES





FLOOR STRIPPERS
FOR THE REMOVAL OF FLOOR
COVERINGS





GRINDING
FOR GRINDING AND POLISHING
LARGE FLOORS AND OTHER SURFACES





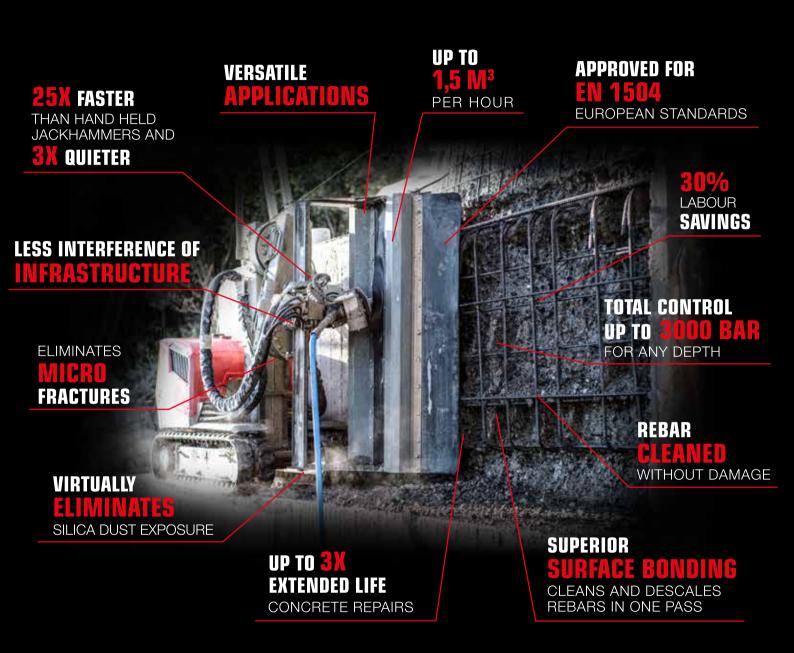
DUST COLLECTORS
TO WORK IN A SAFE & DUST FREE
ENVIRONMENT

COME AND VISIT US AT BAUMA 2019
INDOOR BOOTH A1.414 | OUTDOOR BOOTH 12A.10



Hydrodemolition advantages

with Aqua Cutter® robots





Come see us at Bauma 2019 Come see us at Bauma 2019
You'll find us in booths: #A1.127 / #A1.8 / #FM.713/2





Selected list of exhibitors at Bauma 2019:

1Diamond AS Adamas BV AGP Europe Airo Tigieffe S.R.L AIRTEC AG Alimak Alimak Service Alitrak Srl ALLU Deutschland GmbH ALLU Finland Oy Alpin Makine San. ve Tic. AS. Alpin Makine San. ve Tic. AS. ALPINE KALIP Altrex B.V. Aluexbeams ALUFASE S.A. ALUFASE S.A. Ammann Group Ammann Group ANMOPYC Antraquip Corporation Aquablast Aquajet Aquajet Systems AB Aquajet Systems AB	A1.139 A1.233 EWE.06 FS.1102/10 A1.118 FS.1102/10 C4.328 FN.1021/2 C2.306 C4.600 B0.320/9 B3.401 C4.124 FM.708/1 FS.909 FS.910 A1.220 C5.503 A1.425 A1.425 A1.127
Aluexbeams ALUFASE S.A. ALUFASE S.A. Ammann Group Ammann Group ANMOPYC Antraquip Corporation Aquablast Aquajet Aquajet Systems AB	C4.124 FM.708/1 FM.708/1 FS.909 FS.910 A1.220 C5.503 A1.425 A1.425
Astec Industries, Inc. Atlas Copco Power Technique GmbH Atlas GmbH	FS.1109/4 FS.1108/1 FM.813/A

Atlas Weyhausen GmbH	C6.212
AUSA Center, S.L.U.	C6.202
AUTEC Srl	FM.807/9
AVANT	FN.1020/5
Avant Tecno Oy	FN.1020/5
B&B Attachments Limited	B5.304
BAIER, OTTO, GmbH	EWE.02

BLASTRAC	A1.414
Bobcat	FN.820
Bochumer Eisenhütte GmbH & Co.KG	C2.225
Böcker Maschinenwerke GmbH	FS.1203/2
BOMAG GmbH	FS.1008/1
BOMAG GmbH	FS.1109/1
BOMAG GmbH	FS.1009





PDi shows

Bosch GmbH, Robert	
	A3.327
BRAUN Maschinenfabrik Gesellschaft m.t	.H. A1.215
Breaker SRL	A1.203
Broendum, V., A/S	A1.114
Brokk AB	A1.127
Brokk AB	FM.713/2
Brokk	A1.127
Brokk	FM.713/2
Bronto Skylift	FS.1203/3
Brunner & Lay Inc.	C4.527
Cangini Benne s.r.l.	C5.149
CARDI s.r.l.	B0.217
Case Construction Equipment	FN.817
Caterpillar S.A.R.L.	FM.60B.7
Caterpillar S.A.R.L.	FM.709/1
Caterpillar S.A.R.L.	B6.102
Caterpillar S.A.R.L.	B6.104
Caterpillar S.A.R.L.	B6.106
Caterpillar S.A.R.L.	B6.107
Caterpillar S.A.R.L.	B6.308
Caterpillar S.A.R.L.	FM.60B.1
Caterpillar S.A.R.L.	FM.60B.3
Caterpillar S.A.R.L.	FM.60B.5
Caterpillar	FM.709/9
Caterpillar	B6.B62
Caterpillar	B6.106
"CEDIMA Diamantwerkzeug- und	
Maschinenbaugesellschaft mbH"	A1.349
CEJN Product GmbH	A3.313
Chicago Pneumatic Construction Equipm	
CityEquip	FN.1024/1
CONEXPO-CON/AGG	EOE.17
Conjet AB	A1.424
Consec Corporation	A1.246
Construction Equipment Association (CEA)	B5.426M
Construction Equipment Association (CEA) Construction Equipment Association (CEA)	B5.426M B5.438M
CONTEC	A1.212
CONTEC s.r.l.	C1.512
CORAZZA SRL	B5.450
CORIMAG S.r.l.	B5.324
CRAMO AG	FN.619/3
Cramo School	1 14.010/ 0
	FN 619/3
Cummins	FN.619/3 A4.325
Cummins DAEMO Engineering Co. Ltd	A4.325
DAEMO Engineering Co.,Ltd.	A4.325 B5.237
DAEMO Engineering Co.,Ltd. DARDA GmbH	A4.325 B5.237 FM.713/2
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V.	A4.325 B5.237 FM.713/2 FN.624/7
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V.	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG Di-Star Ltd	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG Di-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG Di-Star Ltd Diamond Products Limited	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG Di-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co.	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405 A1.334
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG Di-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DiBO NV	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405 A1.334 A1.112
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG Di-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DiBO NV DIECI S.r.I.	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405 A1.334 A1.112 FS.1007/1
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG Di-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DIBO NV DIECI S.r.I. DIEWE GmbH	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405 A1.334 A1.112 FS.1007/1 A1.315
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG Di-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DiBO NV DIECI S.r.I. DIEWE GmbH DIGGA Ltd.	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405 A1.334 A1.112 FS.1007/1 A1.315 B5.447
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DEUTZ AG Di-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DiBO NV DIECI S.r.I. DIEWE GmbH DIGGA Ltd. Dinolift Oy	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405 A1.334 A1.112 FS.1007/1 A1.315 B5.447 FS.1306/1
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DI-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DIBO NV DIECI S.r.I. DIEWE GmbH DIGGA Ltd. Dinolift Oy Doosan Infracore Europe B.V.	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405 A1.334 A1.112 FS.1007/1 A1.315 B5.447 FS.1306/1
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DI-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DIBO NV DIECI S.r.I. DIEWE GmbH DIGGA Ltd. Dinolift Oy Doosan Infracore Europe B.V. "Doppstadt, Werner, Umwelttechnik	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405 A1.334 A1.112 FS.1007/1 A1.315 B5.447 FS.1306/1 FM.F5/517
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DI-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DIBO NV DIECI S.r.I. DIEWE GmbH DIGGA Ltd. Dinolift Oy Doosan Infracore Europe B.V. "Doppstadt, Werner, Umwelttechnik GmbH & Co.KG"	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.339 B0.405 A1.334 A1.112 FS.1007/1 A1.315 B5.447 FS.1306/1 FM.F5/517 B5.538 B5.539
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DI-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DIBO NV DIECI S.r.I. DIEWE GmbH DIGGA Ltd. Dinolift Oy Doosan Infracore Europe B.V. "Doppstadt, Werner, Umwelttechnik GmbH & Co.KG" "Doppstadt, Werner, Umwelttechnik GmbH & Co.KG" Duss, Friedrich, Maschinenfabrik	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.139 B0.405 A1.334 A1.112 FS.1007/1 A1.315 B5.447 FS.1306/1 FM.F5/517
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DI-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DIBO NV DIECI S.r.I. DIEWE GmbH DIGGA Ltd. Dinolift Oy Doosan Infracore Europe B.V. "Doppstadt, Werner, Umwelttechnik GmbH & Co.KG" "Doppstadt, Werner, Umwelttechnik GmbH & Co.KG" Duss, Friedrich, Maschinenfabrik Dustcontrol GmbH	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.339 B0.405 A1.334 A1.112 FS.1007/1 A1.915 B5.447 FS.1306/1 FM.F5/517 B5.538 B5.539 A1.416 A1.549
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DI-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DIBO NV DIECI S.r.I. DIEWE GmbH DIGGA Ltd. Dinolift Oy Doosan Infracore Europe B.V. "Doppstadt, Werner, Umwelttechnik GmbH & Co.KG" "Doppstadt, Werner, Umwelttechnik GmbH & Co.KG" Duss, Friedrich, Maschinenfabrik Dustcontrol GmbH DYNASET Oy - Powered by Hydraulics	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.39 B0.405 A1.334 A1.112 FS.1007/1 A1.315 B5.447 FS.1306/1 FM.F5/517 B5.538 B5.539 A1.416 A1.549 FNJIIB/1
DAEMO Engineering Co.,Ltd. DARDA GmbH Dehaco B.V. DEMAREC DEUTZ AG DI-Star Ltd Diamond Products Limited Diamond Tools Austria GmbH Diatop Sama Co. DIBO NV DIECI S.r.I. DIEWE GmbH DIGGA Ltd. Dinolift Oy Doosan Infracore Europe B.V. "Doppstadt, Werner, Umwelttechnik GmbH & Co.KG" "Doppstadt, Werner, Umwelttechnik GmbH & Co.KG" Duss, Friedrich, Maschinenfabrik Dustcontrol GmbH	A4.325 B5.237 FM.713/2 FN.624/7 FM.713/2 A4.327 FN.1215/1 A1.500 A1.339 B0.405 A1.334 A1.112 FS.1007/1 A1.915 B5.447 FS.1306/1 FM.F5/517 B5.538 B5.539 A1.416 A1.549

EPEC OY Epiroc Deutschland GmbH Erkat I Anbaufräsen PC GmbH EURODIMA GmbH & Co KG EVERDIGM Corp. Exin Diamond New Material Co., Ltd Fayat Dynapac Fayat Group FLEX-Elektrowerkzeuge GmbH FLYGT Dr. Fritsch GmbH FRUTIGER Company AG FSI power-tech ApS FSX Equipment, Inc. Fuchs Furukawa Rock Drill B.V. Fuzhou Bontai Diamond Tools Co., Ltd. GEDA-Dechentreiter GmbH & Co. KG GEDA-Dechentreiter GmbH & Co. KG Gehl GEN SET S.p.A. Generac Mobile Products srl GENESIS GmbH Genie FM.711 Giant Crushing Ltd	A1.223 A1.537 C5.512 FM.708/3 A2.426 FS.1208/1 C4.324 A1.402 FS.11006/2 A1.535A FS.1008/3 FS.1008/3 FS.1008/1 A1.319 A6.449 A1.538 B5.224 FS.1311/3 A6.521 FM.710/1 A1.535B ICM304/1 FM.710/1 A1.535B ICM304/1 FS.1004/1 FS.908/1 A6.419 A5.526 FN.1020/1 B5.426M FN.921/9 A1.449 A6.143 FS.1011 A1.425 C4.215 C2.502 A6.439 B2.226 A4.449 A1.438 EWE08 A1.503 C5.427 C5.449

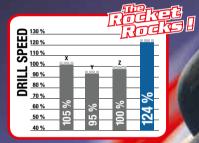


	A1 O1O
Hilti Deutschland AG	A1.313
HIMOINSA	A6.308
HINOWA S.p.A.	C4.325
HINOWA S.p.A.	FS.1103/8
Hitachi Construction Machinery (Europe)	
Hoeflon B.V.	FS.903/7
Holland Lift International B.V.	FS.1101/1A
Holmatro Industrial Equipment B.V	B0.409
HOLP GmbH	FN.1019/3
Honda Motor Europé	A4.149
•	
HTC Floor Systems	A1.325
Huddig AB	FN.1023/4
Huddy Diamonds s.r.o.	B0.107
Husqvarna Deutschland GmbH	A1.137
Hycon A/S	A1.210
•	
HYDRA SRL	FN.523/1
Hydraram b.v.	FN.815/5
Hydro-Tec GmbH	A1.403
Hyundai Construction Equipment Europe	FM.812/A
ICS Blount Europe S.A.	A1.415
·	
Idrobenne s.r.l.	C4.146
IDROMECCANICA RAMTEC	C5.415
IMPACTS GmbH	A1.305
Indeco	FM.709/8
INDECO Ind S.p.a.	FM.709/8
·	
Indexator Rotator Systems AB	FM.807/5
Infratec co., Ltd.	A2.447
INTERMAT	E0E.01
INTERMAT ASEAN	E0E.01
INTERPUMP GROUP	
	B0.100
Interpump Hydraulics SpA	A3.339
Italiademolitori S.r.l.	C5.148
Jansen Betonwaren B.V.	FS.1004/5
Janser GmbH	A1.102
Jekko s.r.l.	FS.903/6
	1 3.303/0
John Deere Construction & Forestry Divis	
•	
Kärcher	sion FS.1011 A1.103
Kärcher	
Kärcher Kärcher, Alfred, Vertriebs-GmbH	A1.103 A1.103
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE	A1.103 A1.103 FM.708/15
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE	A1.103 A1.103 FM.708/15 FM.708/17
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD.	A1.103 A1.103 FM.708/15
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE	A1.103 A1.103 FM.708/15 FM.708/17
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD.	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kliemann GmbH Klindex Srl Klingspor	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Schleifsysteme GmbH & Co. KE	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KE Kobelco Construction Machinery Europe	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KE Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association"	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association"	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment	A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 ont C4.303
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association"	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 out C4.303 out C4.403
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" Kohler Engines	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 out C4.303 at C4.403 A4.225
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association"	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 out C4.303 out C4.403
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" Kohler Engines	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 out C4.303 at C4.403 A4.225
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" Kohler Engines Kolbenschmidt	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 out C4.303 out C4.403 A4.225 A6.101 A5.324
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" Kohler Engines Kolbenschmidt Komatsu Europe International N.V.	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" Kohler Engines Kolbenschmidt Komatsu Europe International N.V. KOMATSU EUROPE INTERNATIONAL N.V.	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222 C6.223
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" KOCEMA - Korea Construction Equipment Manufacturers Association" KOCEMA - Korea Construction Equipment Manufacturers Association" Kohler Engines Kolbenschmidt KOMATSU EUROPE INTERNATIONAL N.V. KOMATSU EUROPE INTERNATIONAL N.V.	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222 C6.223 C6.232
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" KOCEMA - Korea Construction Equipment Manufacturers Association " KOCEMA - Korea Construction Equipment Manufacturers Association" KOCEMA - Korea Construction Equipment Manufacturers Association " KOCEMA - KOREA CONSTRUCTION AND AND AND AND AND AND AND AND AND AN	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222 C6.223 C6.232 C6.233
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" KOCEMA - Korea Construction Equipment Manufacturers Association" KOCEMA - Korea Construction Equipment Manufacturers Association" Kohler Engines Kolbenschmidt KOMATSU EUROPE INTERNATIONAL N.V. KOMATSU EUROPE INTERNATIONAL N.V.	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222 C6.223 C6.232
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" KOCEMA - Korea Construction Equipment Manufacturers Association " KOCEMA - Korea Construction Equipment Manufacturers Association" KOCEMA - Korea Construction Equipment Manufacturers Association " KOCEMA - KOREA CONSTRUCTION AND AND AND AND AND AND AND AND AND AN	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222 C6.223 C6.232 C6.233
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" "KOCEMA - Korea Construction Equipment Manufacturers Association" Kohler Engines Kolbenschmidt Komatsu Europe International N.V. Kranlyft, AB	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222 C6.223 C6.232 C6.233 FM.713/1 FS.1003/1
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipmen Manufacturers Association" "KOCEMA - Korea Construction Equipmen Manufacturers Association" Kohler Engines Kolbenschmidt Kolbenschmidt KOMATSU EUROPE INTERNATIONAL N.V. KRENINGT, AB Kroll Energy GmbH	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 nt C4.403 A4.225 A6.101 A5.324 C6.222 C6.223 C6.223 C6.233 FM.713/1 FS.1003/1 A1.523
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipmen Manufacturers Association" "KOCEMA - Korea Construction Equipmen Manufacturers Association" Kolbenschmidt Kolbenschmidt Kolbenschmidt KOMATSU EUROPE INTERNATIONAL N.V. Kranlyft, AB Kroll Energy GmbH KUBOTA (Deutschland)	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 nt C4.403 A4.225 A6.101 A5.324 C6.222 C6.223 C6.232 C6.233 FM.713/1 FS.1003/1 A1.523 A4.239
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipmen Manufacturers Association" "KOCEMA - Korea Construction Equipmen Manufacturers Association" Kolbenschmidt Kolbenschmidt Kolbenschmidt KOMATSU EUROPE INTERNATIONAL N.V.	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222 C6.232 C6.233 FM.713/1 FS.1003/1 A1.523 A4.239 FN.1019/1
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipmen Manufacturers Association" "KOCEMA - Korea Construction Equipmen Manufacturers Association" Kolbenschmidt Kolbenschmidt Kolbenschmidt KOMATSU EUROPE INTERNATIONAL N.V. Kranlyft, AB Kroll Energy GmbH KUBOTA (Deutschland)	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 nt C4.403 A4.225 A6.101 A5.324 C6.222 C6.223 C6.232 C6.233 FM.713/1 FS.1003/1 A1.523 A4.239
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kleemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipmen Manufacturers Association" "KOCEMA - Korea Construction Equipmen Manufacturers Association" Kolbenschmidt Kolbenschmidt Kolbenschmidt KOMATSU EUROPE INTERNATIONAL N.V.	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222 C6.232 C6.233 FM.713/1 FS.1003/1 A1.523 A4.239 FN.1019/1
Kärcher Kärcher, Alfred, Vertriebs-GmbH KAESER KOMPRESSOREN SE KAESER KOMPRESSOREN SE KATO WORKS CO., LTD. Keestrack NV KERN-DEUDIAM Kiesel GmbH KINSHOFER GmbH Kliemann GmbH Klindex Srl Klingspor Klingspor Schleifsysteme GmbH & Co. KG Kobelco Construction Machinery Europe "KOCEMA - Korea Construction Equipmen Manufacturers Association" "KOCEMA - Korea Construction Equipmen Manufacturers Association" Kohler Engines Kolbenschmidt KOMATSU EUROPE INTERNATIONAL N.V.	A1.103 A1.103 A1.103 FM.708/15 FM.708/17 FN.1116/1 FN.1017/1 A1.422 ICM.302 FM.713/2 FS.1011 A1.231 A1.541 B.V.FN.1016 at C4.303 at C4.403 A4.225 A6.101 A5.324 C6.222 C6.223 C6.233 FM.713/1 FS.1003/1 A1.523 A4.239 FN.1019/1 C5.444

We are proud to introduce the Ultimate Rocket* Drill line.

• Up to 30 % faster

(best drilling speed for core drilling tools)



- Competitive price
- Made in Belgium

Why "Rocket drill" ?

This nickname comes from one of our customers!

Try the Rocket, you will understand!

*Only by CARBODIAM

CARBODIAM s.a.

Rue Général Mellier 27 B - 1495 Tlilly - BELGIUM - +32 (0)71 870 640 Contact : sales@carbodiam.com



PDi shows





Layher Steigtechnik GmbH	B3.319
LEGUAN LIFTS DY	FN.1020/5
Lehnhoff Hartstahl GmbH	FM.710/2
Leica Geosystems GmbH Vertrieb	34A.4
Liebherr-International Deutschland Gmb	
Link-Belt Cranes	FS.903/3
LISSMAC Maschinenbau GmbH	A1.249
LiuGong Machinery	FM.F4/417
Maeda Mini Cranes	FS.1003/1
MAEDA SEISAKUSHO CO., LTD.	FS.1003/1
MAGNI TELESCOPIC HANDLERS S.R.L.	FS.1107/9
MAGOTTEAUX	B2.338
Manitou	FS.908/1
Manitou Group	FS.908/1
Manitowoc Cranes	FS.1201
Manitowoc Cranes	FS.1202
Manitowoc Cranes	FS.1302/1
Mantovanibenne s.r.l.	C5.137
MAXIMUS CRUSHING AND SCREENING	B2.236
MB Crusher	B5.424
MB Crusher	FN.832/9
MB Dustcontrol BV	FN.624/9
MBI Deutschland GmbH	C5.137
McCloskey International Ltd.	FS.1211/1
McCloskey Washing Systems	FS.1211/1
MECALAC FRANCE S.A.S	FN.919/1
Meijer Diamond Tools BV	EWE.11
Merlo Deutschland GmbH	FS.1108/3
Merlo S.p.A. Industria Metalmeccanica	FS.1108/3
Messersi' S.p.A.	FN.1019/7
Metso Germany GmbH	FS.1111/2
MONTABERT	C5.425
MotoCut Oy	C5.231
MTB Breakers & Attachments	C4.312
MultiOne Srl	FN.919/5
Multiquip (UK) Limited	FM.808/2
Nakayama Iron Works, Ltd.	B2.324
National Flooring Equipment	B0.201
NEXUS DIAMANTE SRL	C2.430
Niftylift Ltd.	FS.1002/10
OFFICINE MECCANICHE E.M.E. Srl	A3.100
OilQuick AB	FN.821/1
Okada Aiyon Corporation	C5.329
Olssons i Ellös AB	B0.506
OMME LIFT GmbH	FS.1102/1
Padley & Venables Ltd.	C2.436
Palazzani Industrie S.p.A.	FS.907A/1
PDi Magazine/SCOP AB - PDa Magazine	
Riverbends Publishing	A1.136
Perkins Engines Company Limited	A4.336
Perkins Engines Company Limited - Part	is
and Service	A5.207
Phoenix Conveyor Belt Systems	C2.139

Pilosio Group S.p.A.	FN.720/7
PIRTEK 24/7 HydraulikService	A6.526
PIRTEK Deutschland GmbH	A6.526
Pladdet B.V.	FN.1022/2
Portafill International Ltd	FN.1024/1
Powerscreen	FM.711
Powerscreen	FN.1024/1
PRINOTH B4.413	
PROMOVE s.r.l.	B5.326
Putzmeister	B6.100
Ramtec Oy	C5.327
Remu Oy	B5.421
Riedlberger GmbH	FN.618/13
Ritchie Bros.	C4.139
RIVARD	FS.1104/2
Rockster Recycler GmbH	B2.214
Rokla GmbH	FN.1015/9
Rossi GmbH	A3.308
Rossi S.p.A.	A3.308
ROTAIR S.p.A.	C5.238
Rotar International B.V.	C5.337
Rototilt GmbH	FN.914/9
Rozzi S.p.A.	C4.721
RUBBLE MASTER HMH GmbH	B2.236
RUBBLE MASTER HMH GmbH	FN.1024/1
SAECLIMBER SL	FM.708/1
Saint-Gobain Abrasives GmbH	A1.437
SAMEP TOOLS	B5.312
SANY Group Co.,Ltd.	FN.620/9
Scanclimber Oy	FS.1101/1
Scandinavian Pile Driving SPD AB	FN.622/1
Scanmaskin Sweden AB	A1.338
Schleifmittelwerk H.Riedel & Sohn GmbH	B1.127
Dr. Schulze GmbH	A1.149
Schwamborn Gerätebau GmbH	A1.149 A1.314
SENNEBOGEN Maschinenfabrik GmbH	FM.712
Sept-Tools	A1.142
SF DIAMOND CO., LTD	A4.102
SHEARCORE	C5.509
SIMA	A1.125
"Simex s.r.l. Soc. Uninom."	C5.315
Skyjack	C4.515
Snorkel	FS.1002/3
SOCOMEC S.p.A.	B5.530
SoRoTo A/S	A1.406
Spraystream	C2.402
SSAB Swedish SteeL GmbH	A6.439
Steelwrist AB	FN.1115/3
STIHL Vertriebszentrale AG & Co. KG	A1.327
"Sulzer Pumps Wastewater Germany Gm	
Sumitomo (S.H.I.) Construction Machiner	
Sumitomo Heavy Industries Construction Cranes	
Superabrasive EOOD	A1.213

TADANO LTD. (International Division) TADANO LTD. (International Division) Takeuchi Takeuchi TECMAN Sarl Terex Corporation Terex Equipment Limited Tesab Engineering Limited TEUPEN Maschinenbau GmbH Thwaites Limited Titan International Inc. Topcon Positioning Group Tractive AB PENTRUDER Trelawny SPT Ltd TREVI BENNE S.p.A. TRIMMER SRL Tsurumi (Europe) GmbH Tyrolit Construction Products GmbH UNACEA UNACEA UNIC Cranes Europe URACA GmbH & Co. KG	FS.1309/3 FS.1305/1 FS.1305/1 FN.1116/2 B2.146 FM.711 FN.720/9 B2.131 FS.1204/6 FN.1019/9 A6.315 A2.249 A1.403 A1.130 C5.424 A1.409 A6.338 A1.139 E0E.21 A5.135 FS.1102/5 A1.248 FS.1002/4 C6.201 C6.203 C6.213 FM.714
WORLD OF CONCRETE EUROPE Yanmar Construction Equipment Europe Yanmar Europe B.V. "Zoomlion Heavy Industry Science & Techr	A1.113 A1.126 A6.113 FS.1010 FS.1011 FS.1111 ICM.106 C5.325 A1.103 E0E.08/B E0E.01 FN.1017/2 A4.425



Enhance your productivity.

Hilti has set a new standard with its latest generation of DST 20-CA wall saws. The new saws provide a 30 percent increase in power compared to the previous generation, while having three time the starting torque. The DST 20-CA high frequency electric wall saw is the first saw in its power class without a power box. The integrated electronics in the saw head simplify transport of the saw and make also lengthy set-up times a thing of the past. A cordless remote control displays the cutting depth in real time. Thanks to the integrated CutAssist system the saw operates on a hands-free basis.

We are happy to invite you to our live demonstrations on bauma 2019 in Munich.







TRANSFORMING THE WAY YOU WORK.





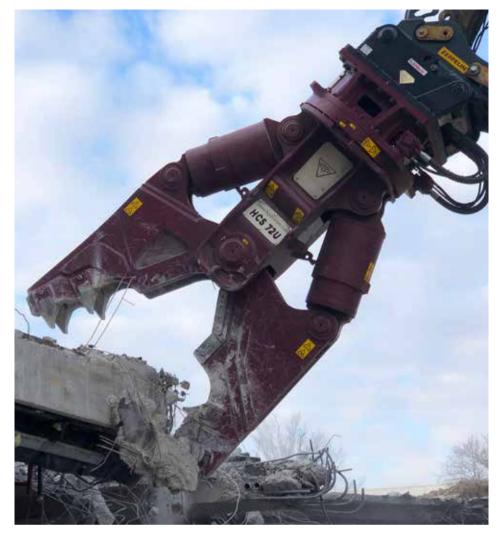
TRANSFORMING YOUR WASTE.

Screen, crush, separate and load in one step operation all your demolition waste, such as bricks, asphalt, wood, metal and fine material. ALLU Transformer transforms your base machine into a mobile screening and crushing unit. More efficient waste material recycling - transforming your waste into valuable material. Why pay for expensive landfill payments when you can make cash from trash.

Welcome to visit us at Bauma 2019, Munich, and we'll tell you more about how you can transform the way you work.

BAUMA STAND FN.1021/2





New from Hydraram

During bauma 2019, Hydraram will present its completely renewed line of demolition equipment.

The HCC series demolition crushers, HCS series combicutters, HSS series scrap shears, HFP series concrete pulverisers, HFP-M series concrete pulverisers with integrated magnet, HRP series rotatable concrete pulverisers and HDG series demolition and sorting grabs have all been updated. The attachments have gained more strength and Hydraram has improved the cycle times (open/close). By using hydraulic cylinders with higher working pressures, the power of the attachments has been increased by 22%, and in some cases up to 35%. Furthermore, the speed valves mounted on the cylinders are optimised so that cycle times are improved.

The HCC series features a new type of changeable penetration teeth that were already applied in the HCS series. These teeth have a better penetrating ability in concrete, which has further optimised the creaking force of the crushers. The combination of these modifications has resulted in 35% greater efficiency of the scissors. In addition to the conventional jaws which are fitted as standard in the HCC series, 'HPJ' jaws (high penetration jaw) have been developed, with, as the name suggests, these shorter jaws having been designed to be able to transfer even more force to the object to be demolished. Because the jaws are shorter, the leverage

law (F1 \cdot r1 = F2 \cdot r2) is converted in favour of the force at the tip of the jaws.

The Hydraram HPJ jaws have up to 30% higher penetration force than the standard HCC jaws. Furthermore, the new HCC series can be equipped with an automatic lubrication system.

Hydraram developed the HFP series pulverisers with integrated magnet in 2018, with bauma 2019 being the first show where this magnet will be on display. This integrated magnet works on the 24V system (batteries) of the excavator, so no additional alternator is needed and is therefore easy to install. The magnet function can be switched on by the excavator's operator to easily collect the remaining concrete reinforcement steel at the construction site during crushing of the concrete. Furthermore, the magnets are equipped with a quick release system, so that the metal is immediately ejected as soon as the magnet is switched off.

The HDG series of demolition and sorting grabs has been extended to 25 models ranging from 75kg to over 14,000kg for excavators from 1t to 250t. The new HDG series is characterised by the low construction method, more powerful inner cylinders with end damping, and has only four turn / hinge points and two reinforced rotation motors for greater torque.

10% MORE CUTTING FORCE

LaBounty, a brand of Stanley Infrastructure, has recently launched a new generation of mobile scrap shears. These feature a robust upgrade to the piercing tip, an advanced telematics platform providing 10% more cutting force and come with a three year warranty. The new shear tip increases productivity and uptime by maximising the utility of wear parts by making it indexable, and increases protection thanks to a fully enclosed, double sided design. This added protection will dramatically decrease routine maintenance, build up and hard surfacing.

The next generation of shear will also feature Stanley Infrastructure's advanced telematics, InSite. With the addition of InSite, operational efficiency and uptime of attachments can now be tracked and monitored at the attachment level. The new InSite utilisation tracker will help LaBounty mobile shear customers better understand how their equipment is being used by tracking idling, cutting, sorting and moving times. In addition to utilisation tracking, InSite delivers real time shear data to mobile devices to help customers monitor attachment hours, cycles, location and health.

A new MSD platform now features a 10% increased cutting force at the jaw apex. In addition to the machine uptime savings, advanced monitoring, and increased cutting force, most LaBounty mobile shears will receive a three year warranty and protection plan as standard. The end result of extensive customer research the recently introduced upgrades have been designed to help increase uptime and drive higher productivity. "At LaBounty, we've been very focused on decreasing the routine maintenance of mobile shears and leveraging technology to increase uptime," says Michael Moriarty, group product manager at Stanley Infrastructure.







Atlas Copco launches Xc4004

Atlas Copco is set to launch the new Xc4004 smart air controller for its large and specialty air compressors with flows from 20 to 128m³/min and pressures up to 345bar.

The innovative and powerful controller increases the efficiency of operations featuring an easy to use interface that puts users in full control. A secondary point of use controller unit is also available and provides users with the option to remotely operate their portable compressors.

The 177.8mm controller display allows a simultaneous view of several parameters, including pressure and flow. Consequently, there is no need to toggle around to check the flow at a certain pressure. Additionally top

structured alarm settings allow for operation monitoring. Finally, the navigation is available in 30 languages, covering Atlas Copco's global presence.

By supporting all Atlas Copco regulating systems and pneumatic regulation system, the Xc4004 smart air controller increases efficiency and boosts fuel efficiency further with its auto load/unload and start/ stop functionality. The auto diagnostic function actively increases uptime, with users being able to monitor 15

key parameters and access several parameters through a second control unit. This could, for example, be mounted on a drill rig, with remote monitoring being able to be hard wired or through RRC radio connection.

The Xc4004 smart air controller also offers a solution for emissions regulations, with the Xc4004 controller replacing seven different previous controller models. This will also improve efficiency and ease of use when owning and operating several Atlas Copco compressors.

New battery powered power cutter FROM HUSQVARNA

The latest addition to Husqvarna's battery powered range, the Husqvarna K 535i battery power cutter, builds on its

fuel and electric powered equivalents, while adding benefits such as low vibrations, low weight and user friendly ergonomics. It is almost maintenance free, offers a low cost of ownership, and can easily be used for wet cutting.



Husqvarna's battery powered products are a versatile range of handheld equipment for lighter landscaping or hardscaping jobs. Lightweight and powerful, they all operate on one battery system, offering a large number of benefits, including the absence of exhausts, low noise and low vibration levels. The slim design and low weight (3.5 kg)) make the K 535i easy to lift, control and manoeuvre, while the centred placement of the blade provides increased stability and control when compared to conventional angle grinders.

For increased safety and ease of use, the blade will stop its rotation from full throttle to zero in 3.1 seconds, and can be used for both wet and dry cutting. Adding accessories to help facilitate dry cutting is easy and quickly accomplished. Ergonomic handles have been specially developed to be comfortable and increase control for extra safety while cutting, whilst the intuitive keypad on the K 535i has been designed for high levels of control enabling quick commands and features a savE function. The side fed placement of the battery maximises cooling and minimises the risk of slurry and dust getting stuck in the machine.



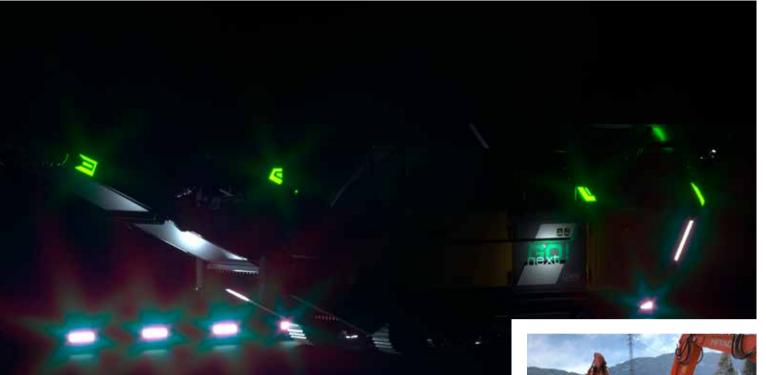


NORTH AMERICA'S LARGEST CONSTRUCTION TRADE SHOW

CONEXPOCONAGG.COM

MARCH 10-14, 2020 | LAS VEGAS, USA





RM sets NEW BENCHMARK

at bauma

At bauma 2019 (booth B2.236), visitors to the Rubble Master stand will be able to experience the ongoing development of the RM GO! brand in the form of RM GO! NEXT.

In addition to a fully integrated hybrid drive for crushers and numerous digital features, RM will also be launching a world first for mobile screens.

Fully integrated plug in hybrid with the same machine size

RM presented the first plug in hybrid crusher at bauma 2013 in the form of RM TWO GO!, where the electric drive was an external option. With the fully integrated hybrid drive in the new RM 120GO!, RM now combines the advantages of diesel driven and electric powered crushers without increasing the size of the machine. This delivers full flexibility in the type of drive, maximum mobility, quiet operation, lower emissions, higher performance and infinitely variable rotor speed over a wide range. The main advantage being that with RM, the crusher still remains compact, with the base frame of the RM 120GO! having been slightly modified to make room for the electric motor, with the weight of the crusher only increasing by 500kg. Additionally the RM 120GO! hybrid boasts an even more powerful generator and a 50% larger diesel tank.

Other leading efficiency features

Since 1991, RM crushers have been equipped with

direct drive diesel engines, whilst all auxiliary drives on RM crushers have always been driven electrically, with only the crushing unit being driven directly by the diesel engine. RM crushers were therefore the first to do without hydraulic drives for belts and operate the vibro-channel and main discharge belt electrically. This has saved fuel, operating costs and achieved a high degree of efficiency. RM thus uses optimised components such as more durable generators, with its experience in electrical drives and control systems leading to the design of the first fully electric skid mounted crusher in the mid-1990s.

The RM GO! NEXT has seen Rubblemaster take the next step in efficient operation. "Our crushers and screens communicate with the user, either directly using light signals or via the RM GO! Smart App. This will make our machines even safer and even faster as well as easier to service," says chief executive Gerald Hanisch. Effectively the machine communicates with the operator by emitting light signals, with the operator being able to remain outside the machine's danger area while it is processing. The total throughput and proportion of the screened aggregate serve as an indicator as to whether the crusher is operating at full capacity. Daily reports and error code routines are also included as part of the digital service.

VTN Europe at bauma

For more than 45 years VTN has been developing and manufacturing ever more innovative equipment to improve and facilitate the work of those operating in the earth moving, industrial, demolition and recycling industries. Its unique ranges of models are of technically advanced and of high quality, designed to be able to meet the expectations of even the most demanding specialists, and to satisfy all the needs of the construction industry. VTN Europe itself states that is not just a brand, but a precious heritage of history and tradition, of culture and passion for work. As an Italian exporting company, it has over time invested to develop solutions to face the most arduous of challenges.

In order to capitalise on its sales growth, VTN will be exhibiting at bauma 2019. All the equipment displayed on the stand are worthy of note, with new developments being featured. These include a hydraulic coupler, the new Link-o-Matic, which provides all types of equipment with hydraulic connections in complete safety from the excavator cabin. Also being launched is the CK 22 Plus +, which is designed to allow lower operating pressures, providing high penetration and crushing forces, as well as faster work cycles. Last but not least, the new VF 23HM secondary demolition crusher is equipped with a built in magnet with an exclusive high power hydraulic drive (internal power unit).





TopTec Spezialmaschinen GmbH

REMOTE CONTROLLED DEMOLITION ROBOTS

Breithornstraße 10 · D-81825 München

E-mail: info@toptec-germany.de Tel.: +49(0)89-42720550



New QAS 5 generators offer

REDUCED NOISE AND EMISSIONS **FOOTPRINTS**

Atlas Copco has launched the fifth generation of its flagship QAS generators range. Developed in response to today's operational challenges, the new QAS 5 models offer end users in the construction, events and industrial sectors quieter operations, a 20% smaller footprint than comparable models on the market, reduced engine emissions, faster plug and play paralleling, enhanced fuel economy, 24h autonomy and lower total cost of ownership. As a consequence, the QAS 5 range helps customers to improve their fleet utilisation and return on investment.

The QAS 5 range has been developed to provide generator users with a smooth transition towards the phased adoption of EU Stage V engine emission standards in 2019/20. The first five models in the range are new versions of the QAS 80, 100, 120, 150 and 200 generators. All include optimised Stage IIIA engines, a

high capacity fuel tank and integrated variable speed drive (VSD) motor to power the cooling fan. These features, along with an integrated VSD motor, combine to provide users with an average 5% reduction in fuel consumption when compared to the industry average for equivalent models.

Atlas Copco's QAS 5 range also capitalises on the benefits delivered by advanced digitalisation connectivity. For instance, by applying the optional FleetLink telematics system end users can realise maximum visibility of their assets location and performance, wherever the generators are in the world.



attachment from Wimmer

New in the Wimmer Hartstahl fleet for demolition is its universal pliers 'Quick Cut', which are said to deliver impressive performance with only one cylinder and a fast opening and closing speed. The simple design facilitates maintenance and service work, with wear parts being easily replaced or reconditioned. The ranges' 'alligator' tooth model possesses a wide jaw opening, with the entire range providing a high punctual crushing force at the crusher teeth. This enables the crushing of hard reinforced concrete, making it suitable in a variety of demolition, recycling and crusher preparation applications.

Quick Cut is equipped with exchangeable crusher teeth and has integrated, exchangeable cutting blades, with the special shape of the teeth allowing gentle knife cutting. Quick Cut can be optimally used on a carrier of 20t or more, proving its qualities both during a bridge demolition in Rabenstein and during a building demolition in Leoben (both in Lower Austria). Due to the use of particularly wear resistant steel in manufacture and its high crushing force, the Quick Cut with alligator teeth is able to cope with the hardest of reinforced concrete.

WIMMER LAUNCHES

the 'Blue Badger' compact tunnel excavator

The new 'Blue Badger' tunnel excavator from Wimmer is a tunnelling machine specially developed for applications in connection with the 'New Austrian Tunnelling Method' (NATM). The 14t excavator has an engine output of 53kW and is highly suited to excavation work, as well as for securing and deburring. It offers high hydraulic power for attachment tools, and as a complete package, it is matched to Wimmer attachment tools. As a result, it can be offered as an overall concept especially for smaller tunnel cross sections from 3.5m upwards. Despite its total weight of approximately 14t, the Blue Badger has high breakaway forces for driving. The concept of the boom (swivel arm with 2x45° swivel radius), its high mobility and higher load capacity for

attachment tools also result in flexible and wide ranging use in tunnel construction.

The Blue Badger was recently used in the Plabutsch Tunnel (Pyhrn motor way near Graz in Austria). In the course of the renovation work, cross passages were constructed with its help during the beginning of 2018. In



December 2018 a model worked in the Auberg tunnel area in Traunstein, Bavaria, Germany, for the company Marti GmbH. The tunnel is designed to relieve the traffic congestion in Altenmarkt, and is planned as a section of the bypass for a length of approx. 1.5km, with completion estimated in early 2021. The 'Blue Badger' was used in the latter application for the construction of a rescue tunnel. It is also being used in France, near Paris, on the Spie Batignolles project, which is part of the 'Grand Paris' subway construction project being undertaken on behalf of RATP, the metro operator, and will be used in France until May 2019, working on several sections.

RDP-series







Incredible **cutting powers** combined with easily replaceable wear parts

- Lowest fuel consumption and operational cost of pulverising
- Unique cylinder positioning, guarantees maximum force during total cycle
- Built of high performance structural steel
- Always in good condition with easily replaceable wear-parts





FULL AUTOMATIC ROBOT-LASERWELDING





SUPPLIER OF SOLUTIONS See you at BAUMA

STAND:EWE11



Meijer Diamond Tools BV Loohorst 8 NL-7207BM The Netherlands Tel: +31 313 659555

E-mail: info@meijertools.nl

www.meijertools.nl







Visitors to this year's bauma exhibition in Munich, Germany, will be given a glimpse into the technological future as Volvo Construction Equipment (Volvo CE) looks at 'Building Tomorrow', showcasing its latest machines and integrated services. Demonstrating the breadth of the Volvo Group, Volvo CE will be joined at bauma 2019 by sister companies Volvo Penta, Volvo Trucks and Volvo Financial Services. Under its theme of 'Building Tomorrow', Volvo's 2,293m² indoor stand in Hall C6, and 5,870m² outdoor stand at FM714, will feature a non-stop interactive performance. This will feature the complete product and service portfolio, for today, tomorrow and well into the future.

The company has announced that Volvo CE is to go electric on its Volvo branded compact excavators and compact wheel loaders in 2020. With this move, Volvo CE will become the first construction equipment manufacturer to commit to an electric future for its compact machine range. The first two hydraulic-electric machines will be unveiled at bauma, followed by a staged market by market introduction and ramp up in 2020.

New excavators that will be launched at the show include the 20t EC200E, and the EC15-EC20E compact excavators. Demonstrating not only the breadth of Volvo's excavator line, but also its length, will be the new EC750E high reach demolition excavator. There will

also be the launches of the EC300E hydraulic-hybrid excavator and an EC220E that features Volvo 'Active Control' automated boom and bucket movements for a more efficient digging process. In all, there will be 50 machines on Volvo's two stands, grouped into the sub themes of 'load', 'dig', 'haul', 'pave', 'innovation' and 'service', with many events also being held on the company's outdoor area.

Melker Jernberg, the company's President, will jointly host along with the presidents of Volvo Penta and Volvo Trucks an international press conference during the show. This will cover the introduction of new products and outline the company's future plans.







Allu will be proudly exhibiting and demonstrating equipment from its Transformer, Processor and other equipment ranges at bauma 2019. As well as established and proven equipment, Allu will be unveiling its latest developments, launching new and exciting solutions.

New products and solutions

In addition to its existing state of the art equipment solutions being exhibited at bauma, Allu will also be introducing new products and solutions. These consist of:

- The new and upgraded Allu Mobile App with new functions aimed at helping improve customers productivity and jobsite safety, whilst also enhancing customer service.
- Allu TS blade structure with two fragment sizes and a new blade thickness of 8mm.
- Allu TS doubling / tripling new blade variations for combinations of between 8mm right up to 105mm.

The patented unique TS blade structure has been developed by Allu which has long been a pioneer developing techniques of this kind. The TS blades are a modern development for the screener / crusher market, with Allu set to deliver new levels of efficiency and productivity with the new blade variations. This new blade structure will further enable customers to utilise their Allu Transformer in more than way.

The Allu Mobile App is the latest development of Allu's state of the art communication system. This

provides an intelligent digital solution for customers and operators to obtain accurate and timely operational information, thereby maximising safe and productive use of Allu equipment. Through easier and improved contact functionality, customer support is also enhanced through the new features of the App.

The complete line-up for bauma 2019

The Allu stand will be located in the open area north of the extensive show ground, right next to the north / east entrance. The purpose designed stand will enable Allu to show visitors how its equipment and solutions are able to transform business operations, delivering improved productivity, efficiency and profitability. The entire range of Transformer models ranging from the smallest DL series to the large M series will be exhibited, and in addition, the stand will show the Allu Processor 500 HD and a selection of Allu compactors.

As well as a static display, there will be live demonstrations throughout the show of Allu Transformers and compactors. The developments and demonstrations show that with the widest range of attachments on the market, the Allu equipment ranges enables businesses to choose the right piece of equipment to meet their very particular requirements. Allu looks forward to showing at first-hand how its equipment and expertise can help any business transform more than just its profits.

The Allu stand at bauma will be located at FN.1021/2 in the open area, north.

NEWS FROM SIMA

Cutting tiles without dust is now possible due to the latest developments from Spanish manufacturer. Sima, the new 'Elite' tile cutter for indoor cutting which is powered by a 1300W angle grinder with a Ø 125mm diamond blade. Its performs straight cuts as well as 45° cuts, windows and grooves, has a cutting depth of 22mm and weighs 35kg. Thanks to its aluminium support arms, it is able to handle bigger slabs, and can operate on the floor, on a bench or on a set of easels (as an option).

Small size tile cutter Keramax

The Keramax is a wheeled table saw specifically made for large porcelain tiles, being a semi-portable solution that performs fast cuts. An adjustable water refrigeration system focuses the water supply on the points that need more water during cutting, with a foldable support arm to hold and handle bigger slabs. The tile cutter also includes a set of clamps to fasten and immobilize the slab on the table, with telescopic fold away legs that can be adjusted for table levelling.

Triton crushing debris into sand

Triton is a debris crusher for refurbishing works indoors. After use, the resulting sand is a third of the volume of the original debris. Furthermore, if the debris is free of gypsum, wood or metal, the sand can be re-used to mix with cement and produce mortar. The Triton crusher is offered in a three phase or single phase (with inverter) version.

HandSafe

HandSafe protects the operator from accidentally touching the blade while cutting. If the blade touches human skin it will stop in 40 hundredths of a second, thereby limiting any damage. It works through a sensor detecting any changes in resistance, humidity and conductivity. If parameters change at any given moment, differing to those of wood for instance, the sensor will send a signal to immediately stop the blade. HandSafe received the Intermat award in 2018 for innovation in safety.



HYDRARAM®



Hydraram develops and produces over more than 25 years attachments for use in demolition & recycling industry.

We supply a complete line of hydraulic attachments for excavators from 1 to 250 tons.



WWW.HYDRARAM.COM



For everything, there is a season; a time to build, and a time to tear down. If you're dealing with concrete, you want the toughest, most powerful breaker available to make quick work of the old material, and get a head start on that building process. Whether you're attending bauma 2019, or just following the action from your home and office, there are plenty of new and upgraded breakers and related products with features designed to maximise efficiency and value. They'll help you make 'break time' the most productive time of all. Jim Parsons reports.

Furukawa Rock Drill extends FXJ hydraulic breaker series

Furukawa Rock Drill's FXJ series hydraulic breakers is the synergistic result of more than 50 years of experience and continuous developments combined with today's technology. Two new models will be introduced at bauma 2019:the FXJ 225 and FXJ1070. One of eight FXJ models, the FXJ1070 replaces the F100XP, adding an extra .5t in weight and with more impact energy, as well as durability and the lowest lifetime ownership cost in the range. Thanks to improvements of its in-liner systems, and various other patented solutions, the new FXI breakers offer an increased power to weight ratio. A weight reduced breaker with higher impact energy results in larger breaking power, with less maintenance with minimum downtime and easy handling. A wider range of oil flow allows the breaker to be used with various excavator sizes.

A new mono block design eliminates the need for through bolts, resulting in higher performance and more stability. The FXJ series is ideal for use on demolition sites, or as a production breaker at a quarry, with the slim design increasing the efficiency in trench and channel works. Both noise and vibrations are also reduced by the newly designed dampening system. The high production quality combined with new mono block construction, and newly designed rod retaining pins ensures individual components last longer, greatly reducing overall maintenance costs. The new models offer the

standard features found on Furukawa's previous breaker range, such as anti-idle blow, adjustable piston stroke, connections for a central greasing system and underwater operation, dust intake prevention, and many more.

New Cat GC S series hydraulic hammers

The new Cat GC S series top mount, hydraulic, silenced hammers from Caterpillar Work Tools - models H115 GC S, H120 GC S, H130 GC S, and H140 GC S - are specifically designed for hydraulic excavators with operating weights from 13t to 40t. The new GC S series models combine optimum power to weight ratios with design simplicity to ensure reliable performance, versatility, ease of use, convenient maintenance, and cost effectiveness in a range of applications, including municipal, general construction, demolition, quarrying, and mining. As a package solution, Caterpillar designed hydraulic kits are available to provide an exact hammer to machine fit for Cat models, ensuring optimum performance.

A gas fired operating cycle delivers a constant reliable performance maximising hammer efficiency, with an automatic shut off feature that provides blank firing protection by stopping the piston from cycling internally when no material is under the tool. Eliminating blank firing protects the hammer by reducing internal stress and heat, which results in lower overall owning and operating costs. As a standard feature, GC S series hammers feature a protective, enclosed housing, designed to lower



PDi special feature

the noise level for the operator, as well as for the overall job site.

The hammers' top mount design increases impact power by ensuring that hammer force and stick force are consistently in line. The top mount also provides a larger work area and enhances visibility for the operator. A further benefit of the design results from the top mounted bracket transferring considerably less force into the end of the stick, reducing both potential bending stress and overall impact on carrier structures. Hammer speed / frequency can be easily adjusted to match specific applications and materials to provide optimum productivity.

www.caterpillar.com

Hammer acquisition puts Kinshofer in the breaker business

Kinshofer's January acquisition of Hammer SRL gives the company an immediate presence in the hydraulic breaker market. The 14 model KFX breaker series deliver 150 to 900bpm with operating weights ranging from 8t to 220t, with separate adjustable values allowing users to adjust both blow frequency and working pressure. The 9 model single piece KSB Series produce 600 to 1,100bpm for excavators ranging in weight from.5t to 121t, and work with nitrogen inertial energy recovery. Special sealing rings on the floating support mean the nitrogen charge life can be increased by up to 300%.



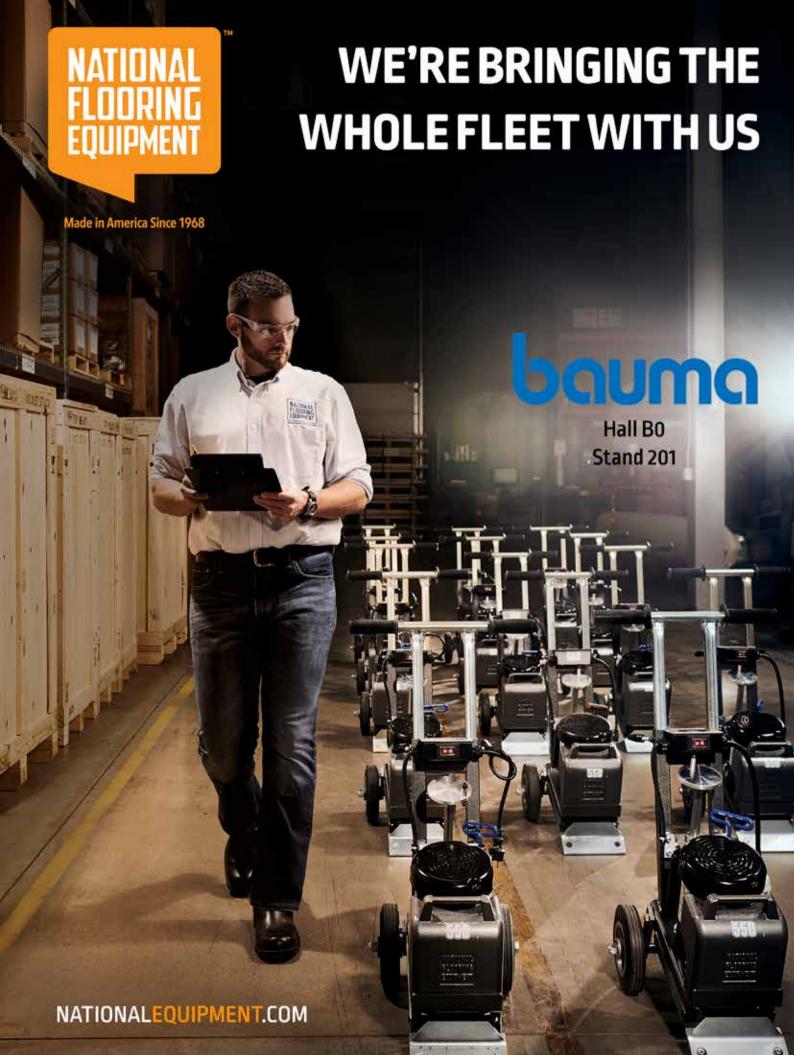
Montabert's SC 36 breaker spotlights series' success

One of Montabert's 9 SC series breaker models, the SC 36 hydraulic breaker, features fully enclosed sound proof cradles to minimise harmful vibrations, limit jobsite noise, and protect working parts from dust and debris. This has been designed for use with skid steer loaders, backhoe loaders, and mini excavators weighing between 1t and 15.5t, with the SC 36 producing 1,550 bpm using Montabert's 76mm diameter blunt, pyramidal, and chisel point tools. The tool has an operating weight of 365kg, and impact energy of 4,448N.

The SC series is very tolerant to back pressure, and compatible with all existing hydraulic systems with the use of internal pressure regulation. A simple 'plug and go' process means no extra components or complicated adjustments are needed. The SC's hydraulic distribution will automatically adjust the breaker working pressure, enabling optimal functionality. With few wear parts, and no tie rods for simplified routine maintenance, SC series breakers are also compatible with all quick couplers, and meet all adaption requirements for a variety of carriers.

www.montabert.com







SOLUTIONS FOR LEADERS

MADE IN GERMANY





NEW IN THE MARKET!

2-gear dry coring in concrete with rebar up to 10"

ULTIMATE COMPETITOR!

Dry coring in reinforced concrete, up to 6" diameter.

Maschinenfabrik OTTO BAIER GmbH - Heckenwiesen 26 - 71679 Asperg - Germany Tel. +49-7141-30 32-0 - info@baier-tools.com



INNOVATION | CREATION | MADE IN FRANCE

Concrete machines with a french touch

- contact@autourdubeton.com
- www.autourdubeton.com



Bush-hammering and grinding machines



Diamond and PCD wings



Bush-hammer plates

Follow us on:

¶Au Tour Du Béton ⊕Au Tour du Béton ▶Au Tour du Béton @ATDB



Rammer celebrates 40th anniversary

To celebrate 40 years of excellence and reflect changing customer requirements, Rammer has renewed both its outlook and product offerings. This has led to the updating and upgrading of its Excellence Line of hydraulic hammers, which follows on from the launch of the Performance Line earlier in 2018. One of the key features of the new line is that safety is endemic to the operation of the range, no matter if the hammer is being used in a quarry, on a demolition project, tunnel or any other application. To reinforce this commitment, all models feature reflective stickers that remind users of the importance of working safe, and helping colleagues do the same.

One of the major features of the Excellence Line is Rammer's purpose developed RD3 remote monitoring device, said to be a first of its kind on hammers. RD3 uses the 'MyFleet' telematics service to track and monitor fleet equipment usage without the need of going to the site to collect the data, making it ideal for dealers, rental companies and operators. This cloud based system enables the hammers to be viewed and monitored in Google maps.

The main benefits of the system are that it enables owners and managers of fleets to know exactly where their equipment is, and how it is being used. This facilitates better business decisions through providing improved security and optimised fleet location, while also enabling enhanced application knowledge and operator education, all accomplished via GPS data. This helps the tools contribute to the owner's overall profitability and efficiency.

The Excellence Line further reflects Rammer's developing customer focused outlook through having a host of other new features. Lower tool bushing rotating and replacement on the field increases lifetime of lower tool bushing, which contributes to reduced operating costs. This is further reflected through the use of two tool retaining pins that increase the lifetime of the tool and retaining pins, as well as increases the lifetime of the tool bushings. An IBP on / off selector is fitted to the valve body enabling easy field adjustments (2577E and up). Separate greasing channels from the valve body to the upper and lower tool bushing further increases tool and tool bushings lifetime.

Rammer's Excellence Line continues the company's 40 year tradition of delivering innovative hammers designed to improve profitability, safety and performance. With its new customer focused features, the line perfectly represents Rammer's developing outlook in assisting businesses enhance their performance.

www.rammer.com

Promove celebrates 30 years of customer satisfaction

On 23 November 1989, Promove began a long and am-

bitious journey, driven by the intuition of its founding partners. "We made a bold choice many years ago by accepting a challenge in a tough and critical environment," says Promove president Rachele Capurso. "Everything started in a small workshop. The first Promove breaker was born here and it was a great success." Today all components are in house made, through advanced CNC machinery and using the latest technology, assuring maximum precision and finishing of all the surfaces. All phases of product realisation, ranging from 3D design, sophisticated parametric software, the choice of raw materials, and from assembly to testing and packaging, are carried out with extreme care. This allows Promove to achieve its high standards.

Di special feature

The latest example of Promove's development is the XP60, an extremely innovative 60kg hydraulic breaker for .6t-1.6t excavators. Delivering up to 950bpm, the machine works with a working pressure range of 100-110bar and a flow rate between 10 and 15 l/pm. It's equipped with 12.7mm lubricant inlet and outlet bushings, with a maximum back pressure of 25bar. The secret of containing so much power in such a small body is the internal monoblock structure without tie rods. Thanks to the unique mix of power, lightness and reliability, the XP60 has been designed to be the perfect solution for a wide range of applications.

www.promove.com

Brokk's new hydraulic breaker series

The new Brokk Hydraulic Breaker (BHB) series is perfectly matched with the company's full range of remote controlled demolition robots. In essence, each robot is designed from the attachment backward, providing the exact amount of flow, pressure, backpressure, and downward force that the hammer requires, which offers the best possible demolition performance to Brokk customers. The BHB series includes eight breaker models, from the 50kg BHB 55 breaker for the Brokk



60 machine, all the way up to the 700kg BHB 705 for the recently introduced Brokk 500 and Brokk 520D. The attachments are lightweight and compact, yet feature power similar to larger, heavier breakers from other manufacturers. The hammer bodies are machined from a solid casting, eliminating side and through bolts, along with the side plates found on many other hammer designs. An integrated, side mounted accumulator holds a nitrogen gas charge for as long as a year.

Brokk demolition robots and breakers are designed to work at maximum performance together, resulting in more total demolition power. This includes reducing back pressure and optimised machine oil flow, oil pressure, and down pressure, to allow for more hydraulic power while using less energy.

www.brokk.com

New tunnel version of Epiroc solid body breakers

Epiroc has developed application specific versions of its 315kg SB 302 and 450kg 452 solid body breakers for the rigours and challenges of underground environments. The breakers are designed for 4.5t-13t excavators, and feature a new stainless steel piston that offers longer life while additional casing reinforcement will stand up longer to rugged operating conditions. Special features keep dust and debris out of the machine's inner workings.

www.epiroc.com

There have also been a number of developments purpose designed for small braking jobs, or for working in confined spaces. Here are examples of hand held hammers that provide a lot of punch in a small package, plus the convenience of long lasting cordless operation.

Hilti's cordless Combihammer

Hilti is advancing its tool technology with the introduction of a new cordless SDS max combihammer, the TE 60-A36. Powered by the strongest and highest capacity battery available, the 8kg TE 60-A36 is said to drill faster than any corded combihammer in the same size class, with 3,300ipm. Delivering 1Nm of impact energy, the highly versatile tool is the perfect solution for a variety of applications besides drilling and breaking, including corrective chiselling, driving ground rods and metal stakes for formwork, digging and tamping in narrow

spaces as well as coring in masonry and concrete with Hilti percussion core bits.

In addition to a brushless motor for high performance and efficiency, the TE 60-A36 comes with 'Active Vibration Reduction' and 'Active Torque Control' that protects the user, tool and insert. The TE 60-A36 is OSHA 1926.1153 Table 1 compliant when used with dust removal systems TE DRS-Y, TE DRS-D and a Hilti vacuum cleaner.

www.hilti.com

Bosch GBH18V-36C SDS-max rotary hammer

The Bosch GBH18V-36C rotary hammer delivers 7.5Nm of impact energy in a versatile concrete tool, with the hammer featuring a Bosch EC brushless motor that offers both power and low maintenance requirements. The hammer has a 'no load' drilling speed of 500rpm and a 'no load' beats per minute of 2,900 bpm to maximise performance in hammer drilling and chiselling applications in concrete. The 6.7kg GBH18V-36C is the first Bosch SDS max rotary hammer to feature a reverse mode, which can help free a bit that's become jammed in concrete.



operating status: green for operational; yellow identifies an issue such as higher motor temperatures; red means the tool is offline; and blue means the hammer is connected to a mobile device. The screen communicates alerts and warnings as well as operational status. The optional GCY30-4 Bluetooth connectivity module links the tool to the free Bosch 'Toolbox app', which reports battery charge status and offers enhanced tool control adjustment.

The GBH18V-36C rotary hammer also features Bosch exclusive 'Kickback Control', an integrated sensor that helps reduce the risk of user injury in bind up situations. In addition, Bosch adaptive speed control offers ramp up speed in chiselling mode for greater control to simplify demolition tasks. The hammer's multi-functional selector makes it easy to switch to hammer drilling, chiselling or reverse. To accommodate optimised chiselling, the Bosch GBH18V-36C rotary hammer includes 'Vario-Lock' positioning that allows the user to rotate and lock a chisel into the best working angle. The rotary hammer includes a lock on button for use in chiselling mode. Furthermore, it comes with Bosch exclusive 'Electronic Cell Protection' (ECP) that protects the battery against overload, overheating and deep discharge for a longer life. Bosch 'Electronic Motor Protection' (EMP) further protects the motor against overload with integrated temperature management.

www.bosch.com

















AUSA is launching a new dumper which can be driven backwards as well as forwards.

It has a 10t payload and hydrostatic transmission, which will greatly increase the comfort and safety of the machine. All AUSA's new compact industrial vehicles have been designed with technology, safety and efficiency in mind, with the company now presenting a new innovative concept.

Visibility and safety

Bidirectional driving provides greater safety for the driver thanks to excellent visibility and a comfortable driving position. This is achieved through a reversible driving position, which can be changed quickly and automatically without the need to turn the engine off.

It also features the convenient 'Hill Holder' system, which engages the brake automatically when the driver lifts the foot off the accelerator pedal at a speed close to zero. Thanks to this, the dumper can stop on any slope easily and safely, allowing the operator to operate the unit and concentrate on handling the load.

Based on the design of the D601AHG, launched in 2018, which featured an innovative design and excellent electronic management, the new DR1001AHG also uses an advanced digital display. This shows all vehicle information in real time including speed, RPM, engine temperature, sensors, hour meter, etc., as well as an incident alarm.

Cost effective efficiency

The DR1001AHG also features different automatic driving modes for improved fuel efficiency and optimal engine performance. The 'Eco Mode' system automatically regulates the engine's RPM for greater efficiency and lower consumption, whilst the 'Transport Mode' is activated when the machine requires higher speeds. Finally, a 'SmartStop' option turns off the engine when the machine is not being used and the optimum engine cooling conditions are met, helping to reduce fuel consumption and CO2 emissions.

Rockster shows its latest developm<mark>ents</mark>

Since its founding in 2004, Rockster has developed two patented systems for mobile crushers. At bauma 2019, the mobile impact crusher R1100DS will be displayed in the open area in front of the B2 Hall / Gate 7 (booth number 12B/2). This combines both innovative systems (duplex and double functional return / stockpile belt), and as of 2019, it will also be equipped with a Cat C9.3B EUR V engine.

Wolfgang Kormann, chief executive of Rockster says of the development: "When choosing our drive concept, we consider the performance optimised consumption, which can be distinguished from conventional drive types (time consumption). Our experience has shown over the years that with our variable drive system, the consumption optimisation can be up to 13%. This is another step how the use of the latest technology contributes towards the future with reduced emissions. We have chosen Cat Stage V engine in order to reduce fuel consumption, as well as optimise after treatment of the exhaust gases." Another new development is a machine monitoring system (MMS), which will be available for all mobile crushers as of 2019. The MMS offers the possibility of remote maintenance, which minimises any downtime, being controlled by a multifunctional colour display with scratch resistant touch user interface.

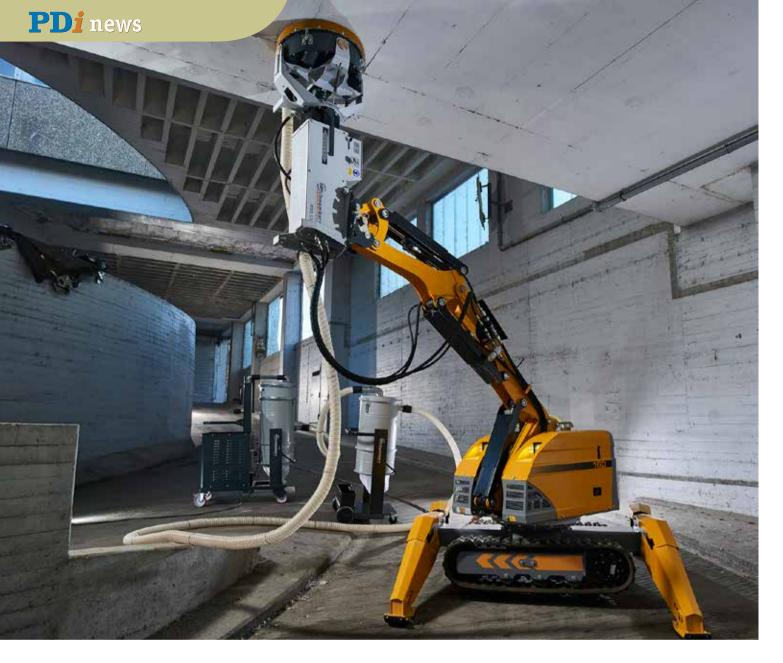
The mobile RSS410 double deck scalping screen will also be shown; this features what the company says is the longest screen box in the compact screening segment, and can be used either as an individual machine, or to produce three final fractions as part of a train. It can be utilised as a pre-screen before crushing for the production of two additional defined fractions, or as a final screening unit after the crusher to separate the crushed product. In addition to the efficient separation of natural stone and building materials, the RSS410 can be used for the separation of coal, metal and topsoil. Beside various scalping screens, Rockster also produces

tracked mobile double or triple deck finishing screens and track mounted or wheeled trommel screens.

As well as its production equipment, the company will be showing a track mounted RST18 stacker with a belt length of 18.2m. It is available in four different lengths, from 15m to 30m, coming with Stage IIIa to Stage V engines. The use of the stacker makes it possible to increase daily production while at the same time reduce material handling costs.

The Rockster stands at bauma will be located at Hall B2, Booth 214, and in the outdoor area in front of Hall B2 / Gate 7, Booth 12B/2 and 12B/6.





SCHWAMBORN to present a globally unique innovation at bauma

The new WDS 530 is a global first and is a finalist in the bauma Innovation Award competition. Heavy demolition, renovation and design work, which previously had to be realised by hand, can now be undertaken mechanically with this Schwamborn development using professional grinding technology achieving what is said to be outstanding area performance. This development is the result of the demands associated with demolition, renovation and design continuously increasing, both in ergonomic and efficiency terms. This has directly led to this innovative, user oriented solution to tackle these challenges.

Efficient and ergonomic

The WDS 530 incorporates over 50 years of experience in professional grinding technology for walls and ceilings. The WDS 530 has a hydraulic drive which can be operated by remote control enabling efficient

grinding and structuring of extensive wall and ceiling areas, achieving an outstanding surface finish. Moreover, it considerably simplifies work and relieves the stress associated with the previous technology which either required manual application, or could cause damage to the building surface.

"Having been designed for working with Brokk demolition robots, this machine enables the achievement of uniformly high contact pressure on walls and ceilings, with 'Cardan' technology ensuring that the grinding head lies flat at all times on the surface. The machine can be fitted with a variety of tools (grinding diamonds, bush hammering tools), depending on the application," says company chief executive Eckart Schwamborn.

These features make the WDS 530 ideal for a variety of application areas; an example being the efficient, rapid, thorough and safe removal of coatings, including those containing harmful substances such as asbestos.

Paint, plaster or tile adhesive applied over a broad area can now be efficiently removed. Another area of use is in subsurface preparation during renovation work and the creation of designer or natural stone floors through grinding with diamond tools.

Environmentally friendly

The machine removal of coatings now employed minimises the risk of damage to operator health. The combination of a professional dust extraction system (including in protected areas) enables safe disposal with a maximum degree of protection for operators and the environment. "You'll gain ground with us," has been Schwamborn's promise to customers in the construction industry for many years now says Eckart Schwamborn. "We develop and manufacture high tech building machinery and accessories for grinding, milling, trowelling and cleaning of floors and now also walls and ceilings."



EXPECTION OF COMMISSIONS Services Products Business AT BAUMA 2019

This spring, Husqvarna Construction Products presents a broader and more efficient offer to our customers than ever before. No matter if it's about our comprehensive product range, our service offers or the connectivity technology enhancing the link between them. With us, you'll always get the chance to get more done, and still you'll always be able to 'expect more'.

Our indoor stand and outdoor demo area at BAUMA 2019 in Munich is the place to go to stretch your expectations and have a great time. We look forward to seeing you there!

HUSOVARNA AT BAUMA

Bauma exhibition 8-14 April, New Munich

Trade Fair Centre, Munich

Outdoor stand Area 01A no 10 and 12

Indoor stand Hall A1 137

Follow us on Facebook for the latest updates!

husqvarna.construction.global | husqvarnacp.com | www.bauma.de





After two vears of intensive research and development, Hycon is set to introduce its new HRD 30 rock drill solution to bauma 2019 visitors.

The hydraulically powered, highly portable drill presents a compelling alternative to cumbersome, air powered equipment.

The next generation of rock drills

The construction industry has used pneumatic, hand held rock drill hammers for decades, despite the difficulties of towing or even airlifting heavy air compressors to every new job. Now, Hycon's new, portable, hydraulically powered HRD 30 rock drill offers features and benefits that threaten to turn its air powered rivals into the dinosaurs of heavy drilling. The new drill offers greater precision, better performance and power, lower emissions and a compact power kit for ease of transportation. "Conventional rock drills require large and heavy compressors to operate them. These compressors can only be towed, so if you also need to take an excavator to the worksite, you'll most likely need to make two trips," says Hycon chief executive, Martin Møller. "Using hydraulics, you can transport a compact power pack in the truck, or even use the excavator's own hydraulics to work the drill."

Tough tests

A revolutionary rock drill needs to face the hardest of tests. Hycon imported a 12t block of black pearl granite from Larvik, Norway, to thoroughly test each prototype. Real world test units were also distributed to a number of customers, primarily in Sweden and Norway for granite drilling, and to Germany, Belgium and Holland to test concrete drilling. Testers reported more power and better performance when compared with conventional air drills. "People tell us that the new drill is more stable than typical pneumatic rock drills, which matters a lot when you may have to wrestle with the drill for hours at a time. That fact alone made it hard to get the prototypes back!" says Martin Møller.

Better holes

The HRD 30 is ideal for deep and large diameter anchoring holes as well as blast or splitting holes measuring between 25mm-50mm. It delivers more precise hole sizes, which is useful when working with non-explosive destruction solutions such as expanding smoke cartridges or an expanding cracking agent (Bentonamit). Martin Møller explained: "In Sweden, one of the testing contractors was able to create nicely rounded holes that were very straight and far closer to the desired tolerance than a pneumatic drill can achieve. If you're putting in an anchor bolt for a power mast, for example, you really need that sort of accuracy."

Weighing up the benefits

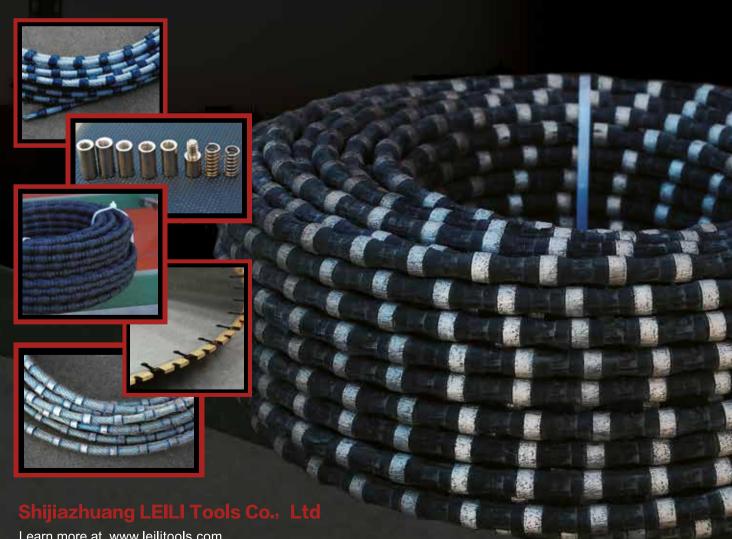
At first glance, the HRD 30 rock drill itself may seem more expensive than a traditional pneumatic rock drill. However, on closer inspection the total cost of kit for a pneumatic rock drill and compressor is higher than Hycons's revolutionary new hydraulic solution. Given its remarkably easy portability as a ready to operate package, the new HRD 30 is particularly suited for utility roadworks such as traffic signage, barrier erection or gas detection. The low weight of the drill and power pack makes the HRD 30 the perfect solution when erecting power masts or antennas on mountaintops without having to airlift a heavy air compressor. Andreas Redebratt of Swedish company Powertools, was involved in user experience testing of the rock drill: "This hydraulic drill is more practical, efficient, economical and reliable than a pneumatic drill. It's easier to service and safer to operate, too. So I believe it's well worth the investment."

The Hycon team will be putting the HRD30 through its paces at its bauma booths' which will be located at indoor booth A1-210 and outdoor booth 1A.6.



A RELIABLE MANUFACTURER

BRINGS YOU PERFECT WORK EFFICIENCY



Learn more at www.leilitools.com

Tel: +86 311 89865438 Call: +86 187 3211 0673 E-mail: leilitools@leilitools.com



New ultra high demolition excavator model from Caterpillar

Caterpillar will at bauma 2019 launch a new ultra-high demolition excavator, the 340 SB, the next generation of demolition excavators from Caterpillar. Thanks to a new design, and new technology, Cat has managed to lower the maintenance costs by up to 15% and has made the machine up to 15% more fuel efficient. It is more comfortable with a deluxe cab, heated seat and a large touchscreen monitor among other features. The machine has also been made safer than previous models with a reinforced ROPS/ FOPS cab, a P5A safety glass front and top, plus a 1PC parallel wipers front and top.

The machine is available with two different undercarriages and two stick lengths. For quick connections it has a PL 161 work tool locator and is tracker compatible with on board 'Product Link'. It is a low level demolition machine made optimal for demolition applications with improved performances above ground level, and has a heavy duty frame plus a 9m heavy counterweight. The 340 SB replaces the 336F SB and is a perfect match for the full line of Cat demolition tools like multi processors, demolition grapple, crushers, pulverisers, hammers, scrap shears, heavy duty buckets and skeleton buckets.

www.cat.com



Volvo new demolition excavator on display at bauma

During the autumn of 2018 PDi published a long report on Volvo's most recent demolition excavator. Volvo now has three purpose built demolition excavators in its fleet, EC380E HR and EC480E HR, as well as the new EC750EHR. The new EC750EHR is a unique machine developed for both high reach and heavy duty demolition purposes, and is based on the E-series.

The EC750EHR boom reach has been extended to 36m, making it able to carry a demolition tool of up to 3.6t. The high reach boom has a unique design, being sturdy, with all sensitive parts being well protected, is equipped with a dust suppression system, and LED lights for good visibility. Additionally, the boom has a strong linkage enabling it to carry very heavy attachments for short rig heavy duty demolition. The return lines have also been increased in order to make the closing of the attachment faster.

The EC750EHR's counterweight has been improved so the complete weight of the additional and standard counterweight can be hydraulically lowered and removed for transport. The machine has a new extension boom for mid reach (18m and below grade, 10m demolition) and can carry attachments up to 8t in this setup. The extension boom can be used both in a

straight and bent configuration. The new cab is purpose built for demolition purposes, and can be tilted up to 30°. It is well protected with a frame mounted falling object guard (FOG) with steel grids on the roof and the front screen. The cabin provides excellent visibility, and is further enhanced thanks to two cameras located on the side and rear of the machine, and a further two cameras on the high reach boom. The cabin also has two large monitors that are easy manoeuvrable, with the operator being able to choose to use all cameras at the same time or just a couple.

The EC750EHR possesses a very steady undercarriage designed for demolition. It is built on an X shape frame, being the biggest ever built by Volvo, and provides a very low centre of gravity. The track width is in the extended position 5.05m (with 750mm track shoes), whilst the base machine weight is 83.5t. The 36m high reach boom without attachment weighs 19.5t, and when a 3.6t attachment is added, the complete machine weight is 106.6t. To comply with transportation regulations, the machine can be stripped down to a maximum weight of 29t, which means that the track frames can be removed, with quick couplings for this to be accomplished easily.

www.volvoce.com

HARD WORK BELONGS TO THE PAST



>>> Professional grinding technology with outstanding area performance for decoating, renovating and designing of walls and ceilings







The concrete cutting and drilling industry's landscape is noticeably changing. An increasing number of suppliers from oriental countries have gate crashed the European party, successfully competing not only on price, but also on guality. Lee Yeong Industrial Co. - a Taiwan based manufacturer of sawing, drilling and grinding machinery, trading under the brand name AGP - is an up and coming player with the potential to make some serious waves in the industry. Andrei Bushmarin reports.

Taiwan enjoys a hard won reputation of having a welldeveloped economy and a highly skilled and educated workforce. Known as one of the 'Four Asian Tigers' (along with South Korea, Hong Kong and Singapore), the country underwent a period of explosive industrial growth in the second part of the 20th century, which made it a major player not only in East Asia, but also globally. Historically, the island's closest neighbours China and Japan have significantly contributed to shaping the modern Taiwan. One of the most telling examples of such influence being Taiwan's educational system, which is largely based on the Japanese model. A vibrant technology based export driven economy is the logical result of this approach.

Natural born engineer

Lee Yeong Industrial Co. was founded by Hsieh Pan-Chong in October 1989 in the city of Douliu. An alumnus of the National Taiwan University of Science and Technology, aka Taiwan Tech (the country's most prestigious technical school), he graduated magna

cum laude in electrical engineering in 1985, and was immediately snapped up by a prominent power tools manufacturer to work in its R&D department. Four years later, having learnt the ropes of the business, he went on to start his own manufacturing company with capital of some €28,500 and only two employees. Lee









Concrete processing machines and diamond tools

Quality without compromises

KFP5 mobile cleaning system



KFP5 chamber filter press: environmentallyfriendly disposal of drilling and sawing mud

Drilling and sawing mud entering canals or bodies of water is not an unlikely occurrence, and is already forbidden by various communities and companies. By means of filtration with filter presses, the solid content can be disposed of as rubble, in the shape of a relatively dry filter cake, and the filtered water can be reused or introduced. Suitable for building sites, the KFP 5 chamber filter press by Hydro-Tec is different to conventional ,classic' filter presses, due to its structure and way of working. The chambers are unsealed, the chamber inlet is at the top and water drains via channels and a drainage tube. Conventional high filtration pressure is not needed for a good level of drying, as the residual water is forced out with compressed air. The closing force is generated with a hydraulic hand pump. This means that compressed air is only needed for the pump drive and for drying the cake during operation. The KFP 5 can achieve shorter cycle times and a high throughput of up to 600 l per hour, with a chamber volume of only 4.7 l. Moreover, the filtered water can be pumped out to a height of up to 5 m without any additional equipment.



Filter chamber



Filter cake can be disposed of as rubble

Hydro-Tec GmbH | Industriestraße 10 | D-91126 Rednitzhembach | Phone: + 49 (0) 9122 83 27 0 | info@hydro-tec.de | www.hydro-tec.com Hydro-Tec Schweiz GmbH | Riedackerweg 411 | CH-5705 Hallwil | Phone: + 41 (0) 62 892 90 00 | info@hydro-tec.ch | www.hydro-tec.ch



Yeong's first product launched into the domestic market under the brand name AGP was a variable speed electric drill for general construction applications.

'Douliu tiger'

The fledgling company got off to a good start, growing by leaps and bounds in its first decade. Taiwan's construction market was booming in the mid 1990s, fuelling demand for machinery and tools. For local contractors however, imported brands were largely unaffordable, whereas domestically produced equipment was not reliable and durable enough. That situation created a perfect window of opportunity for AGP. Soon the industry grapevine was abuzz about the young manufacturer that offered high quality power tools at very competitive prices. The other signature product group that underpinned AGP's progress in its formative years was metalworking tools, in particular magnetic core drills. In 1994, the Taiwanese company was riding high on the wave of success, leading to the acquiring of a 1,600m² facility in the Douliu Industrial Zone to accommodate growing production.

Rewarding times

The dawn of the new millennium was a very rewarding time for AGP. In early 2003, its brand new auto feed

AGP's founder Hsieh Pan-Chong.

magnetic drilling machine ME-3500 won the 11th Taiwan 'Excellence Award'. In October of the same year, Taiwan's Ministry of Economic Affairs bestowed a 'Good Design Award Certificate' on AGP's EV-52 dual speed mixer. Two years later, the TP2000 hybrid magnetic drilling and tapping machine was recognised with a 'Superior Design Certificate' by the Ministry of Economic Affairs. With production volumes constantly on the rise, the Douliu factory, further expanded in 2007, was no longer enough, leading to the company acquiring a 36,000m² lot located at the Yunlin Technology Industrial Park where it relocated all of its manufacturing facilities in 2012.

Export oriented from the beginning

Given the very small size of the domestic Taiwanese market, all successful businesses in the country are export oriented. This applies to AGP, that almost from the very beginning began to supply its machinery overseas, first to neighbouring Southeast Asian states, and then to mainland Europe, the UK and North America. Today the Taiwanese company sells all over the globe, with Antarctica remaining the only continent still unfamiliar with AGP's cutting and drilling solutions. As well as the Douliu headquarters, the manufacturer operates two subsidiaries in Europe: AGP Europe located in Erpe-Mere, Belgium, and AGP Germany based in Bochum.

"... and profit for all"

It is customary in Taiwan for a company to market its products under a purposefully chosen brand name. AGP stands for 'all get profit'. The philosophy behind the slogan is that a company can only grow sustainably if all interested parties - upstream suppliers, employees, dealers and end users - get good value from their dealings with it. This remains the underlying principle as the company evolves with time. If in the past AGP's strongest suit was metalworking tools, today it is concrete cutting and drilling equipment that generates most turnover. The headquarters cum manufacturing facility in Douliu, staffed by 180 personnel, boasts a large R&D centre to allow the Taiwanese producer to react quickly to the latest market trends. True to his professional calling, AGP's owner Hsieh Pan-Chong is still personally involved in the designing of every new product. The

company prides itself on its engineering capabilities and constantly strives to increase productivity by introducing cutting edge manufacturing techniques. A firm believer in the potential of high frequency technology, AGP will be showcasing at bauma a new line of brushless drill motors, along with its well proven ring saws, wall chasers and concrete grinders.

www.agp-powertools.com



High production pavement grinding. Done.

Excellent for urban grinding projects.





Visit us at BAUMA and get detailed information about the pavement bump grinder and many other TYROLIT highlights.

Hall A1 | Booth 139



A collabration of Diamond Products and TYROLIT.

PC4504CE Groover & Grinder

Now available for the European market.

The PC4504CE high production pavement groover is designed for small continuous grinding projects or bump grinding on either concrete or asphalt and is now CE-certified. In combination with the TYROLIT diamond blades that are perfectly adapted to the applications, optimal results can be achieved. Up to 250 diamond saw blades can be fitted onto one shaft depending on the machine and requirements.

The highlights at a glance

- + Diesel engine, 832 I fuel capacity
- Meets European emission standards
- Operated manually or with computer controlled cruise system
- + Equipped with odometer

- Hydraulically operated depth control wheels
- + Designed to grind within 24.1 cm of curb face and raised medians
- + On-board slurry vacuum discharger system
- Dimensions: 9 m length, 21 t weight
- + Cut width: 127cm / blade shaft 20.32 cm
- + Blade shaft speeds: 1,315 RPM to 1,900 RPM



TYROLIT diamond blades for best results

- + Exceptional and consistent cutting performance coupled with a long service life
- + Noticeable smooth running with TGD®-Technology
- + Innovative diamond segment design
- + Clean cutting edges
- + Various specifications for different concrete aggregates
- + For PC4504CE we recommend Ø 450 mm

Get more information on www.tyrolit.com





Diamond sawing and drilling is a relatively young industry where even established businesses can only trace their history back a hundred years or so at best. Unlike most everybody else, California based MK Diamond began its journey over 150 years ago. Founded in San Francisco in 1868 by Joseph Musto, a professional stonecutter of Italian origin, the company pledged an unwavering commitment to quality from day one. Today, a century and a half on, the US manufacturer continues to stand by that pledge. Andrei Bushmarin reports.

When you think of California, San Francisco and Los Angeles are the city names that spring to mind. As fate would have it, it is with these two great cities that the long story of MK Diamond has always been intertwined.

A tale of two cities and one company

The letters 'M' and 'K' in the company's title stand for the names of the Musto and Keenan families who were business associates in the San Francisco Bay area in the late 19th - early 20th century. In 1919, Joseph Musto's son, Clarence, came to Los Angeles with a view to developing new improved diamond blades. By mid-century, the 'Musto-Keenan Company' was a well-established player with a reputation for producing top quality diamond consumables for cutting marble and tiles. The next (and still ongoing) chapter in the company's history began in 1977 when a Robert J. Delahaut came to work for MK Diamond as the vice president of sales.

A diamond in the rough

From 1956, Robert Delahaut cut his teeth in the diamond tooling industry while working for Norton Clipper Manufacturing in San Francisco, selling diamond blades and saws for cutting concrete and masonry. Working at Norton was an education, and a major stepping stone. By 1977, he became a well-known figure in the local business community, so when MK Diamond was looking to expand its sales force, it was Robert they targeted to head the sales operation. When Robert came on board, he redefined MK's sales strategy by adding sawing and drilling machinery to the product offering. An experienced salesman, he understood the importance of brand recognition, which was a tough

thing to achieve with just diamond consumables. The first machine ever manufactured by MK Diamond was the 101 tile saw, shortly followed by the 2001 masonry saw. The saws were such a success with end users that the company continues to produce both models to this day. In 1983, Robert Delahaut purchased MK Diamond and kept on steering it in the chosen direction.

Nothing like home

Today MK Diamond is headquartered in Torrance, a city some 30km southwest of Downtown Los Angeles. The company owns a 4,460m2 building there, which also houses a factory. This is where all the sawing, drilling and surface preparation machines are manufactured and assembled. Of the 120 personnel MK Diamond





We exhibit: Gouma

08.-14.04.19 München Hall A1-Stand 102

Floor Scrapers in suitable weight classes!

German Quality



MASTER MOBIL II 105 kg JUNIOR Ride-on 420 kg Ride-on ADB high-speed 1180 kg

Your projects - our equipment - your success!

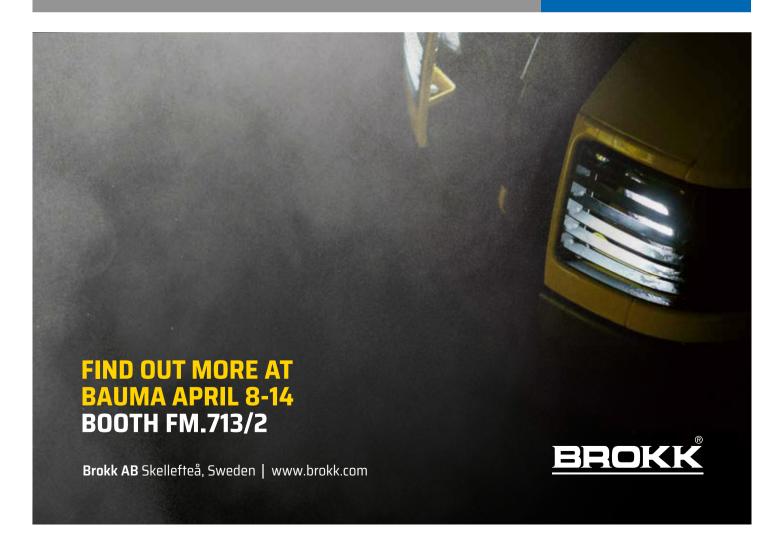






Janser GmbH

Böblinger Straße 91 D-71139 Ehningen www.janser.com Tel. +49/7034/1270 Fax +49/7034/8838 info@janser.com







Brian Delahaut, MK Diamond's Vice President.



currently employs, roughly half work in the plant. Five regional managers are responsible for national sales while Robert Delahaut and his son Brian handle international transactions. A retired US marine colonel who saw active service in Iraq, Brian joined the family business in 1990. Additionally a dedicated manager oversees the Mexican market where the company also maintains a warehouse. At the moment MK Diamond focuses on the North American market, with only 12% of output being sold outside the US. The domestic focus notwithstanding, the US manufacturer does supply its machines and tools to as many as 40 countries worldwide.

Rental focus and strong online presence

As a modern thinking company, MK Diamond is looking to develop a strong online footprint for its products. Towards this goal, it is working closely with many internet retailers, including such heavyweights as CPO Outlets. CPO is MK's fastest growing online dealer, with the growth rate reaching 300% in the past two years. As important as the online side might be, MK still considers regular brick and mortar stores as the best opportunity to get to know the needs and preferences of its customers. Strong customer relations are also the reason why MK Diamond is very focused on the rental market, as this is where users go to try first and eventually buy new products. Rental equipment now accounts for some 23% of MK's total business. The manufacturer is a member of the CRA (California Rental Association) and the ARA (American Rental Association) and a staple exhibitor at the associations' trade shows.

Sawing it softly

Even though diamond consumables still generate some 35%-40% of the turnover, it is sawing and surface preparation machinery that MK Diamond now concentrates on. In the tile saw segment, for example, the manufacturer has practically cornered the US market, with Dewalt being the only serious competitor to the Californian manufacturer. The 'Soff-Cut /Early Entry' saw is rapidly becoming very popular with professional contractors who see it as a viable alternative to Husqvarna's 'Soff-Cut' saw for green concrete applications. MK's machines offer an improved anti vibration base, operator handle controls, and the only over centre vacuum pick up attachment available at present. Featuring a triangle arbour, the saws come complete with a stainless steel skid plate as standard.

Customer centric approach

According to Brian Delahaut, the North American market continues to be a challenging place as distributors and rental yards continue to consolidate, forcing smaller players out of business, with industry regulations

influencing to a large degree product specifications. Thus, new OSHA requirements for silica dust reduction have become a major part of MK saw designs. The manufacturer has recently re-engineered its proven BX-3 masonry saw to have a wet cutting option, and all new machines now feature a vacuum port for dry cutting. New dry cutting dustless products are also in the pipeline, along with alternative fuel options. Just a month ago, the manufacturer introduced the brand new propane fuelled concrete saw, MK-3000. MK Diamond's short to mid-term goals are to launch three to five new products per year, and to further expand the content provided to customers on each model. It aims to be a customer centric company that identifies the challenges faced and the needs of each client in an efficient manner, offering them the best possible solution.

www.mkdiamond.com



Tile saws are a MK Diamond signature product.







GET MORE DONE

ICS announces the acquisition of Merit Engineering and Equipment Company.

If your job is cutting concrete, find what you need, all in one place. From the ICS line of superior concrete power cutters to the market-leading performance of Pentruder high-frequency systems and a full assortment of premium floor saws from Merit, our solutions give you what you need, to get your job done fast.



Indoor booth Hall A1/Stand 415

See our live demonstrations

Outdoor booth 12A/Stand 12







FOR ICS AND PENTRUDER PRODUCTS

CALL TO ORDER: 800.321.1240

EMAIL: orders@icsdiamondtools.com

icsdiamondtools.com

FOR MERIT PRODUCTS

CALL TO ORDER: 928.771.0575

meritsaw.com



Next generation of Pentruder is getting closer

When developing the third generation of Pentruder concrete cutting machines, Tractive wasn't interested in compromises. "When we made up the plans for the third generation concrete cutting machines, the Pentruder HFi-system, a set of very tough targets were defined", says Anders Johnsen, who leads the Tractive product development team. One very important target was to in the best possible way, respect customers' desire for lower weight machines, without compromising performance, productivity and ease of use.

Reaching tough targets

In the quest to reach all the tough targets, the development team had to invent and define new ground breaking technology. "While the current line of Pentruder HF products are the most powerful, reliable and the most productive machines on the market, the new HFimachines had to be clean sheet designs, carrying over basically no technology from previous generations' high frequency or hydraulically driven machines. Every concept and detail design had to be significantly improved upon and refined. One example is the new RS2 wall saw, which to meet legislative requirements just not would be allowed to weigh more than 25kg, which in many places is the limit for one man operation.

"In close cooperation with its highly valued development partners, the Tractive team broke new ground in the field of motor drives and motor design," says Johnsen. Specially designed motors and drives give the new generation Pentruder machines high productivity, reliability and ease of use. In the new HFi-system, Tractive offers a true modular future oriented platform, where a small and lightweight powerpack drives a wide range of products.

Built to last

Tractive want new as well as older Pentruder machines to perform at the highest level for many years to come.

"There is nothing more rewarding than having a customer hand in a ten or even twenty year old saw for service and then just go out and cut again. We have the same design strategy with the new HFi-system," adds Johnsen.

Tractive is a relatively small, family owned company with a long term strategy. Anders and Ingrid Johnsen who started the company have a long history in the concrete cutting business, and have for many years now been joined by their children, who run the day to day business. Kristoffer Johnsen, head of operations says: "We are investing heavily in machinery equipment to

meet the expected increase in sales. It's definitely been the right thing to do for Tractive to keep production as much as possibly in-house. In this way we can keep full control over quality, our excellent staff sees to this, and with modern, state of the art manufacturing equipment it is very efficient."

Marie Peil, marketing director at Tractive adds, " Yes, we are really happy with the path we are on, and plan to continue bringing innovative machines to the concrete cutting market with the aim to improve the everyday life of the concrete cutting operator."

www.pentruder.com



Marie Peil, marketing director and Jenny Muda, finacial director.

MOBILE CRUSHING & SCREENING PLANT







► HIGHT CAPACITIES

CENTAURO 100.32

► LOW AIR POLLUTION

Hall FS.1211/9

- ► LOW NOISE POLLUTION
- ► NO VIBRATIONS
- ► POSSIBILITY TO WORK WITH DAMP OR WET MATERIAL
- ► WHITHOUT THE OPERATOR
- ► LOW WEAR AND MAINTENANCE





Via Giulio Golini, 301 - 40024 Castel San Pietro Terme (BO - Italy) Tel. +39 051 6946611 - Fax +39 051 6946650 - ufficio.commerciale@camssrl.it - www.camssrl.it





NEW CAT GC S SERIEShydraulic hammers

The new Cat GC S series of hydraulic, silenced hammers - models H115 GC S, H120 GC S, H130 GC S, and H140 GC S - are specifically designed for hydraulic excavators with operating weights from 13t to 40t. The new models are said to combine optimum power to weight ratios with design simplicity to ensure reliable performance, versatility, ease of use, convenient maintenance and cost effectiveness in a range of applications. As a package solution, Caterpillar designed hydraulic kits are available to provide an exact hammer to machine fit Cat models.

The Cat GC S series hammers provide impact power and reduced owning / operating costs. The gas fired operating cycle delivers constant reliable performance, maximising hammer efficiency. An automatic shut off feature provides blank firing protection by stopping the piston from cycling internally when no material is under the tool. Eliminating blank firing protects the hammer by reducing internal stress and heat, which results in lower overall owning and operating costs.

As a standard feature, the new hammers feature a protective, enclosed housing, designed to lower the noise level for the operator, as well as for the overall job site. In addition, they incorporate features that buffer the effect of pressure spikes in the carrier's hydraulic system and reduce shock loads on the carrier's front linkage. Helping with critical maintenance requirement is the provision of lubrication (hammer paste). To eliminate manual greasing, automatic lubrication systems are available for

the GC S series, with the option of installing either a carrier mounted or hammer mounted system available.

The top mount design of the hammers increases impact power by ensuring that hammer force and stick force are consistently in line. The top mount style also provides a larger work area and enhances visibility for the operator. A further benefit of the design results from the top mounted bracket transferring considerably less force into the end of the stick, reducing both potential bending stress and overall impact on carrier structures. A high pressure accumulator is standard with GC S series hammers, which helps protect the carrier hydraulic circuit by absorbing pressure spikes created during the firing stroke.

A stroke adjuster is utilised for hammer speed / frequency to match specific applications and materials to provide optimum productivity, with the design, manufacturing practices, quality inspections, and testing providing durability in tough applications. The new hammers are designed with mounting brackets specifically matched to Caterpillar linkages for compatibility with Cat machines. Full length side plates provide ready access to service points, with field maintenance capability for tools and bushings, plus field replaceable lower tool bushings for ease of daily operation and maintenance.

The GC S series hammers are fully supported by Cat dealers. Every Cat work tool is supported with a comprehensive range of pre and after sales services, including advice about work tool selection, operator training, equipment management, and a range of financial and insurance solutions.





ONE SYSTEM, MANY APPLICATION AREAS



ROAD WORKS



PIPING



EXCAVATION



RECYCLING



AGRICULTURAL SPACES



URBAN JOB SITE



QUARRIES AND MINES



DEMOLITION



TUNNELS AND ENCLOSED SPACES

bauma

DEMO AREA #FN 832/9
INDOOR #B5 424
PROMOTIONAL POINT #ATRIUM A6-B6



WATCH MB AT WORK
< Scan the QRcode
info@mbcrusher.com
WWW.MBCRUSHER.COM





The 10,000th E10 1t mini excavator rolled off the Bobcat production line in 2018 in its 10th year of production. The E10, now renamed the E10z, has proved to be ideal for a variety of applications including rental, construction, demolition, refurbishment, landscaping, trenching and drainage work.

The launch of the E10 mini excavator in April 2008 was seen as a landmark moment in Bobcat's history and in the development of the company's compact excavator range. The E10, along with the E08, were the first excavator models designed and built from start to finish in Europe. The goal was to replace previous models by meeting the expectations of customers in Europe and beyond. The E10 is now called the E10z to reflect that it is a zero tail swing mini excavator that is designed and engineered to provide a high combination of performance, stability, operator safety, ergonomics and durability in the mini excavator segment.

A major differentiating feature of the E10z is its patented side adjustable consoles which accommodate hydraulic pilot pressure controlled joysticks. This design

is said to be unique in its class, allowing the operator to enjoy the comfort and feel of much larger machines, whilst being able to adjust the width of the consoles for easy passage through narrow openings.

Impressing its users

Tom Macfarlane, owner of True Plant Hire Limited and Trueline Midlands Limited, based in Wymeswold in Leicestershire in the UK, says: "All of our fleet below 8t is from Bobcat and has been supplied by our local dealer, Butler Reynolds. The Bobcat E10z was one of the first machines we bought for our hire fleet. It is a very good machine offering compactness and versatility, with a width of 710mm allowing it to pass through doorways and other narrow passages. For a small machine, it offers much more power than you'd expect for a 1t model and much more than other minis of this size on the market. It combines this with high operator comfort - the joysticks are easy to use and offer high precision when working."

According to Bertus Boer, general director of Inter-Techno, the Dutch reseller for Bobcat, and one of the most active sellers of the E10z in Europe, the market share for Bobcat compact excavators in the Netherlands is steadily growing. "The E10z mini excavator in particular is selling really well," he says. "This year we have already shipped well over 70 units. We find that the E10z is especially popular in gardening and landscaping. For many years, the standard equipment of a gardener was a lawnmower. But because it is becoming more and more difficult to find personnel, companies are able to do a large part of the manual work quickly and efficiently, thanks to a mini excavator like the E10z and its wide range of attachments. The E10z is operated with a servo joystick. This is really very comfortable, so employees

can work with the machine eight hours a day without any problems."

Compact machine

Being the second smallest model in the Bobcat excavator range, the E10z is easy to transport. In addition to the access provided by its retractable undercarriage reducing its width to only 710mm, the integrated foldable TOPS facilitates passage through openings with low headroom for work inside buildings and in basements. Once the excavator is positioned and ready for work, the undercarriage on the E10z can be expanded to 1100mm for maximised stability in all working conditions.

The E10z's low width enables excellent manoeuvrability in confined spaces, while the zero tail swing design is an additional advantage when working in tight areas. Thanks to a standard second speed range, the E10z is also able to move quickly around job sites to complete projects faster and work more efficiently.

Increased safety and comfort

The E10z also offers several important safety features for operators. A grab bar provides assistance for getting on and off the machine. Entry and exit from the excavator is also made easier thanks to the completely open, flat area for the feet in the operator station. The design of the E10z ensures that the boom offset cannot reach the feet, providing protection in this area. Operator safety and comfort is further enhanced by the completely retractable seat belt on the E10z. Both the left and right consoles on the E10z, which serve as comfortable arm rests, need to be lowered and locked in order to operate the machine. The position of the joystick controls on the E10z can also be adjusted to suit different operators.







Husqvarna K770 VAC and K770 Dry Cut

Operating a power cutter means having to deal with dust. However, in many areas wet cutting is not a feasible option. Therefore Husqvarna Construction Products has developed two new power cutters specifically designed to offer the possibility to cut dry while dealing with dust contamination.

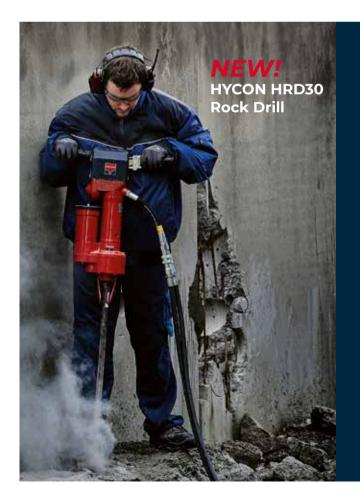
Wet cutting is the preferred solution in cutting applications, but sometimes dry cutting is the only way to proceed. For example, when water is in short supply, or when regulations forbid slurry. With Husqvarna's K 770 VAC and Dry Cut, the power and proven qualities of

the lightweight K 770 power cutter are provided while adding the benefit of dust extraction. The construction of the blade guard helps collect dust while cutting, enabling it to be removed and contained.

The K 770 VAC is equipped with a flexible hose connector that is easily attached to an external dust extractor - like the Husqvarna S 26 - providing superior dust transportation and containment. The flexible and portable K 770 Dry Cut is instead equipped with a cutting arm with an integrated fan. The fan's strong airflow effectively removes dust and transports it to a designated

bag where it's kept contained thanks to the integrated nozzle. The bag is washable, reusable and easily disposed.

Both power cutters provide a cutting depth of 123mm, with an integrated gearbox that reduces the speed of the blade in order to optimise the removal of dust, transporting it via the blade guard either to the external VAC unit or the external bag. Using Husqvarna's dry cutting power cutters help improve operator health and safety and, at the same time, provide a slurry free workspace, minimising the need for cleaning or preparing the work site.



HYDRAULIC DRILLING POWER

Drilling tasks in granite and concrete:

Blast holes, fence posts, street signs, ventilation, heating and gas pipes, through walls, rock splitting, rocks, anchoring and more.

- literarly every drilling job that needs POWER and MOBILITY!

COME AND SEE US AT BAUMA - BOOTHS A1.210 & A1.6

www.hycon.dk



AGP Germany GmbH

Dietrich-Benking-Str. 37 | 44805 Bochum







www.agp-germany.de
Besuchen Sie uns
EWE. 06

DAUMA8.- 14. APRIL 2019 MÜNCHEN



Trailer sizing tips for excavators from Talbert

Selecting the right excavator isn't a decision to be taken lightly. Research is required to find the machine that fits an operation's needs. The first step in sizing a trailer for any hauling job is determining the weight and dimensions of the load, starting with determining the length, height, width and weight of the machine. When making initial calculations, it is advised to ensure what type of tractor will handle hauling the excavator, before moving on to the trailer, as 3 axle tractor and a 4 axle tractors will have different hauling capabilities.

While knowing the overall weight of the excavator is imperative, it is also important to know where that weight is concentrated. The length of deck calculated in the capacity rating varies between manufacturers. One trailer might need the entire deck length for the

50t weight, while another handles that same weight in half the deck length. Driving an excavator over the back of the trailer is no easy feat and requires a careful and experienced driver to prevent damaging the trailer, and minimise the risk of tipping the excavator.

It's important to consider the quality of a trailer, not just the price tag. Working with a custom manufacturer offers the best results when it comes to safety, value and peace of mind. Also consider the construction materials, as investing in higher quality materials and components can double the life of the trailer, significantly enhancing ROI. Ensuring the right trailer for the right application is a job best left to the pros, but with these tips, operators can get a jump start on the process.

KUBOTA WINS AWARD



Doosan at bauma 2019

Doosan Construction Equipment will be showing a wide range of new products for the first time at the bauma 2019 exhibition. The new products include the Stage V DX27z, DX35z, DX62R-3, DX63-3 and DX85R-3 mini excavators, the new DX250WMH-5 25t material handler, the new Stage V DX300LC-7 30t excavator, the new DX800LC-5B 80t excavator and new 30t and 40t class Stage V compliant articulated dump trucks (ADTs). Doosan will also be showing the company's new DL280-5, DL420CVT-5 and DL580-5 wheel loaders for the first time at bauma. Providing a dedicated design for waste, recycling and general industrial applications, the new DL280-5 will be shown in its full waste industry configuration. This includes protectors for lifting and bucket cylinders, articulation, rims, lamps, the rear engine bonnet and the front windscreen, which is tiltable for easy cleaning.



New locator device

Caterpillar has announced the addition of the PL161 attachment locator to its series of Cat Product Link hardware product line. The PL161 locator is said to be the most advanced OEM integrated technology solution for attachment tracking. With the ability to track location and utilisation, users can know where their attachments are located across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement.









PQ6 INNOVATION

PQ6, which enables the drill bit to be changed in seconds without tools, was developed on the initiative of the german Fachverband Betonbohren und -sägen in cooperation with the VDMA association. It enables the mounting and dismounting of a drill bit on the machine by hand, without the use of any tools.

The properties at a glance:

- simple and fast mounting
- easy loosening of the drill bit without tools
- self-centering thanks to a new 6-fold polygon profile
- high concentricity precision
- backlash-free and vibration-free transmission of high torques
- very short construction and low weight

Switch now and benefit from the efficiency increase in the workflow while reducing the risk of injury! Find out more at the bauma at the booth of the Fachverband or visit one of the participating manufacturers!

www.fachverband-bohren-saegen.de

PO6 AUF DER BAUMA:

- ADAMAS, Hall A1.233
- BRAUN Maschinenfabrik, Hall A1.215
- EURODIMA, Hall A1.402
- GÖLZ, Hall A1.449
- Heger, Hall A1.438
- Hydro-Tec, Hall A1.403
- KERN DEUDIAM, Hall A1.422
- LISSMAC, Hall A1.249
- Dr. Schulze, Hall A1.149
- T.D.B.S., Hall A1.100
- TYROLIT, Hall A1.139
- WEKA, Hall A1.113







Kemroc launches KDS range of diamond cutting wheel attachments

The KDS range of diamond cutting attachments is a completely new product group from Kemroc. The first model will make its debut at bauma 2019, with the KDS 30 being designed for use on excavators in the 5t to 10t weight range. For use on standard midi-excavators, this new range of attachments opens a variety of new opportunities for these machines, for example in demolition and refurbishment projects. Later in the year two larger models, the KDS 40 and KDS 50 will be launched.

New CF130 and FMK2000 from Promove

Promove has launched a new series of CF fixed pulverisers beginning with the CF130. This has a weight of 1,300kg, being designed for carriers from 12t to 18t. Amongst its features are interchangeable teeth instead of fixed plates, resulting in a reduction of maintenance costs and in easy maintenance operations. It comes with three rows of two teeth, of which the central one is staggered and lowered enabling the shearing of material before processing. The compact design has a total length of only 1.7m which allows easier manoeuvrability in demolition operations.

The CF130 features a larger cylinder to ensure a higher closing force during demolition applications, and greater power in the jaws. It has an increased capacity to deal with a wide variety of materials, and has been designed with a fixed jaw width of 500mm. Pins are safeguarded by a system of bushings providing minimum wear of the pins themselves. The lower plate on

The new multi-functional crusher FMK2000 is the latest development from the Promove R&D team. The innovative crusher allows the use of different types of jaws (primary demolition jaws, secondary demolition jaws, shear jaws) in an easy and fast way directly on the job site. The system of changing

jaw is semi-automatic, and has been designed to allow easy, fast and safe jaw switching, in a very short time. The different jaws have been developed to maximise performance with a reduced overall weight structure so that the crusher is more manageable and versatile. The FMK2000 features interchangeable teeth of anti-wear material that are the right size for the hardest demolition work. Furthermore, the teeth are oversized to ensure perfect penetration and crushing.

the body of CF130 has been designed to provide a secure and stable grip on the work surface, and to more easily move debris and non-crushable ma-

terials. The lower plate is made of Hardox 400, making it able to complete numerous work cycles and it is interchangeable. The blades are also reversible in order to use the four cutting edges.

FMK2000



New releases from NPK for bauma

NPK will launch a number of new products at bauma including breakers, crushers, crunchers, compactors, sheet pilers and demolition grabs. In order to see the new line up at first hand, the company warmly welcomes one and all to its stand FN1115/1 in open area North.

After last year's introduction of the V250R hydraulic pulveriser at Intermat, NPK has extended its range of demolition tools with the new V160R. Some interesting features on the new NPK V-series include a high closing force, a double rotation motor on the V250R, replaceable tooth plates, teeth located on the arm, teeth on frame, rebar cutter (length 200mm) in the centre of the jaw and no drain line required on the rotation motor. A tooth plate is located in the frame with a large hole (for better release of material) as standard, whilst a tooth plate with a small hole (for better crushing) is available as an option.

NPK will also be unveiling its latest hydraulic crushers, the SV140R and SV500R. Additionally, and due to the success of the SV-SV250R ,SV-65XR and

SV-100XR, NPK Europe has announced the introduction of the successors to the SV-36XR (SV380R) and SV-47XR (SV500R) as well as two smaller models, the SV-7XR and SV140R. All models are double cylinder and feature a double booster (except the SV-7XR and SV140R which both have a single booster) making them what is said to be some of the most powerful crushers in their class. The SV140R and SV500R will be exhibited at bauma. Some of the features of the new SV-series includes higher oil flow, a wider jaw opening and increased crushing force, less noise from the cylinder covers, a booster without a sequence valve, and product weight matching with current excavators models, to mention but a few.

New London depot for Diaquip

After 20 years of diamond tool and equipment supplies in the north of the UK, Diaquip is pleased to announce the opening of a new London depot. This is a fully manned unit offering the full range of Diaquip products off the shelf, but will also allow the supply of manufacturing of core drills from 10mm right up to Ø 1,200mm, as well as floor / wall saw blades up to Ø 2,200mm. This development will enable Diaquip to service and support customer requirements, including last

minute orders, and the provision of a service counter for all pick up / drop off services. The London depot will also hold stock of all Hycon products as Diaquip is now the official national agents for the company.

As well as the launch of its new London depot, Diaquip is now the first and only company in the UK to have invested in a fully automated, 3 axis CNC controlled laser welding machine. This has been acquired to

offer customers the highest quality product, at the fastest service, through the attributes of the laser weld machine. Diaquip has also announced the launch of the DQ segment, which is manufactured using its own developed and renowned 'FusionTechTMTechnology'. The DQ segment makes more holes, more quickly, than any other segment the company knows about, with its speed having been extensively tried and tested.

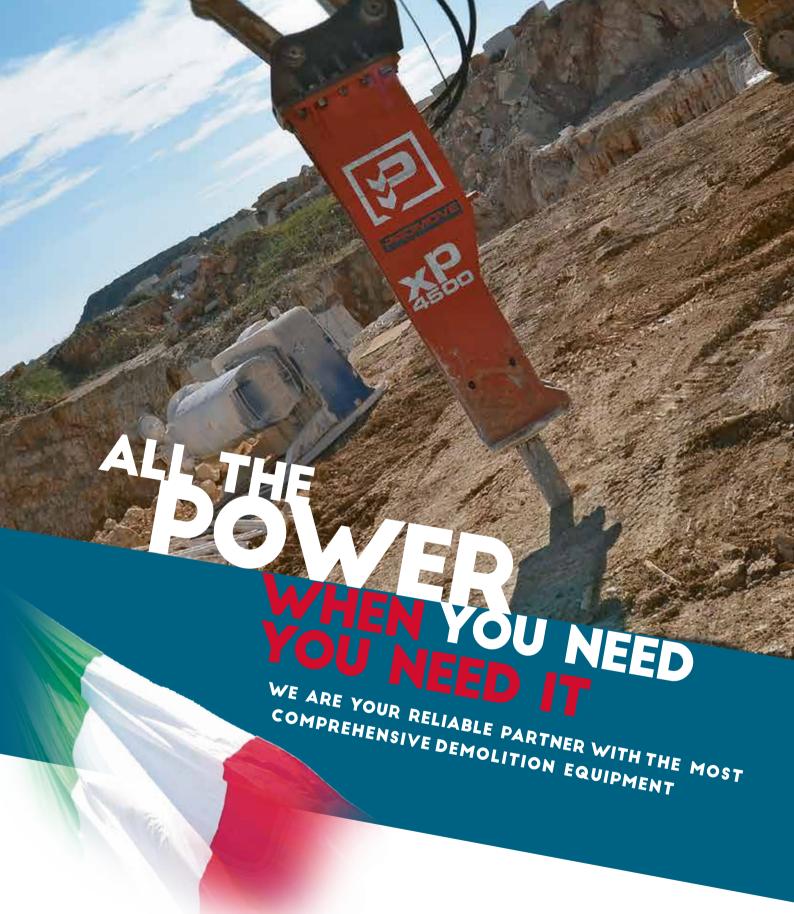




On 15 February, the German Demolition Association (GDA) held its 25th annual demolition conference with a truly celebratory occasion. This year's event was held at the Station-Berlin, an old former mail railway station and now an industrial monument located in the heart of the city, making it the ideal location for a demolition industry event.

The GDA'S recent conference was by far the biggest demolition event in Europe this year. It involved over 1,000 participants, and 115 exhibitors comprising of German and international companies supplying products and services for the demolition industry. Demand for space saw the area put aside for exhibitors growing by 30%. "Over the 25 years we have had over 12,000 visitors, almost 500 presentations and 1,400 exhibitors at this conference," said GDA managing director Andreas Pocha.

The conference involved 14 different lectures being given, with politician and former member of parliament, Wolfgang Bosbach, kicking off proceedings with the opening lecture, titled, 'What matters now'. During this, he highlighted the need for Germany to understand itself as a central country within Europe, and to act accordingly. This being especially relevant given





VISIT US AT #B5.326



PDi reports









The GDA celebrated the 25th anniversary of its annual demolition conference.



The GDA innovation prize, endowed with €2,000, went to Mr. Niklas Bernhart for his master's thesis in civil engineering at the Karlsruhe Institute of Technology.



Brexit, world-wide political unrest, and the increasing digitization in all sectors of German society. In addition, he also warned against pessimism and uncertainty, as years of stability of economic growth, as well as the peace enjoyed in Europe since 1945, should rather be a cause for joy and pride.

As always, there were a variety of subjects covered in the other lectures. These included such subjects as:



'Processing and recycling of fine grained construction waste'; 'Demolition work under ongoing train operations'; 'Load safety for heavy machines' and 'Bottlenecks and new plans for disposal sites'. Of particular interest was Canadian speaker, Ryan Priestley from Priestly Demolition, Ontario, whose talk was titled, 'The taking down of the Nipigon Bridge', the only bridge connecting east and west Canada.

The politician and former member of parliament,

Wolfgang Bosbach, gave the opening lecture

titled: 'What matters now'.



FOR EFFICIENT DEMOLITION!

OilQuick investment pays off!

JR RAMON Demolition, with 70 employees, recently added OilQuick quick coupler to its 80,000-pound excavators.

"Within two months of adding these couplers, I noticed the increase in production. These couplers have changed the way we look at a project and have increased our efficiency on the job."

Timothy Ramon,
President at JR RAMON Demolition, Texas



Meet us any day! Outdoor Area North Stand: FN 821/1

The original world leading quick coupler system with more than 25,000 systems sold worldwide!

- Lightning fast change of hydraulic and mechanical attachments from inside the cab.
- Reduce the number of machines on the site.
- Increased productivity = increased profitability.
- Reduced transport costs.

- Always the right attachment for the job.
- No staff around the machine during tool changes.
- · Eliminates oil spills.
- Protected hose run.
- Improved safety.

PDi reports











For the second time, the German demolition association awarded its innovation prize at the conference. The prize, endowed with €2,000, went to Mr. Niklas Bernhart for his master's thesis in civil engineering at the Karlsruhe Institute of Technology. His subject was titled: 'Experimental design, execution and evaluation for the removal of insulating materials by means of a cutting brush'.

Andreas Pocha also took the opportunity to honour the founder of the annual demolition conference, Dieter Korth, who organised the conference for its first 16 years. Andreas stated, "In the beginning, just after the reunion of former East and West Germany, this was an event to assist former East German contractors to integrate into the market economy. Today the German demolition industry is still very dynamic and optimistic about the business opportunities and growth in the near future."









Cat expands its 'Next Generation' mini excavator range

The Caterpillar range of 'Next Generation' mini hydraulic excavators has been expanded with the addition of six new models in the 7t - 10t class. The new models provide a selection of basic configurations, allowing customers to choose the machine that works most efficiently in applications routinely encountered. As with all Cat 'Next

Generation' mini excavators, the new models feature heavy duty main structures, fuel efficient engines, load sensing hydraulics, spacious cabs, and its exclusive stick steer system. The overall design goal for the models is to ensure optimum value for the customer in terms of performance, operator experience, serviceability, and affordability.



Kemroc launches ES 110 HD multi-purpose cutter

Kemroc has extended its range of multi-purpose attachments for excavators, backhoe and skid steer loaders, with the launch at bauma 2019 of the new ES 110 HD model. The ES 110 HD is designed for use on excavators in the 20t to 40t range, and depending on the hardness of the material, can be fitted with a wheel to cut slots of 1m deep or fitted with a 1m wide cutter drum. Applications for the attachments include tunnelling, civil engineering, construction and embankment repairs.









Tyrolit to introduce latest developments at bauma

At the bauma 2019 exhibition, Tyrolit will present its latest innovations to an international audience.

A 210m2 indoor booth and a 160m2 outdoor area will display the Austrian manufacturer's comprehensive product assortment for concrete cutting and drilling as well as special product solutions for complex projects. The outdoors area will also provide space for live equipment demonstrations.

Product innovations for concrete cutting professionals

Amongst Tyrolit's exhibits at bauma are the WSE811-MKII wall saw, an upgrade of its existing compact wall saw, and an extended assortment of wall saw blades with TGD technology. The company says that its wall sawing highlight will however be the WSE1621. With ultralight components, intelligent communication interfaces and cutting depths of up to 705mm, the WSE1621 is a wall saw for everyday use at the construction site. Moreover, the wall saw is the first Tyrolit machine equipped with 'MoveSmart' technology, which provides real time user data of the machine. This technology is the basis for optimised planning and cost efficient, faster operations for customers and users, as well as for user oriented product development.

The WCU17 wire saw will also be debuted at the German show. It comes with a wire storage of up to 17m and is easy to use. One special feature is the machine's compatibility with the drive units and remote controls of other Tyrolit machines such as the WSE1217 and WSE1621. Another highlight is the recently CEcertified WS30, a HF-wire saw from Tyrolit subsidiary, Diamond Products.

Product innovations for the construction industry

In time to mark its 100th anniversary, Tyrolit will also present a completely new, compact dry cutting assortment for the construction industry. Within the next two years, the complete assortment will be adapted in line with current market needs as well as with today's powerful machines. Central to the new range are high product safety as well as optimised cutting speeds and maximum tool lifetime. Product innovations include

discs with conventional segments as well as segments with TGD technology. Further highlights include a new assortment of floor grinders and floor grinding shoes, the new TBE400 table saw as well as the DRS250 core

Special project solutions

For more than two decades, Tyrolit has been involved in 'special projects', including the controlled decommissioning of offshore platforms and nuclear power plants. Apart from the classic concrete drilling and sawing equipment, which can be adapted according to the customers' needs, Tyrolit's project services team offers a wide range of special tools and machines for complex projects. Part of this range will be presented to the general public for the very first time at bauma. This offering includes the 'Curved Track' drilling unit for deep drilling, and the world's first ATEX certified wire sawing system, as well as the 'Dolphin' by 1Diamond, one of the leading experts in the offshore and subsea business. Tyrolit and 1Diamond teamed up in 2018 bringing customised project solutions from both companies to an entirely new level, enabling them to offer various cutting solutions for as deep as 3,000m below sea level up to the surface.





Hitachi looks to the future at bauma

Hitachi Construction Machinery (Europe) NV (HCME) will be among the manufacturers at bauma 2019 with more than 30 machines on show. The company will showcase a wide range of products and services from its stand (number FN/718). including several new Zaxis-6 mini excavators and compact wheel loaders, the ZX210X-6 ICT hydraulic excavator, and new special application machines.

HCME will be exhibiting a broad selection of its latest Zaxis-6 mini and compact excavators ranging from the ZX17U-6 to the ZX85USB-6, and the ZW75-6 and ZW95-6 compact wheel loaders which have been recently updated to comply with Stage V emissions requirements. They will be joined by the company's first ICT hydraulic excavator with machine control in Europe, the ZX210X-6. Unveiled recently, it offers unrivalled accuracy, easy operation and can enable projects to be completed up to 50% faster than standard excavators.

Reaching further and digging deeper

Included in the line-up at bauma is the new ZX210LC-6 'super' long front excavator, the ZX-135US-6 with telescopic arm, and ZX135US-6 with sliding arm. These are some of the smaller models in the special application range of construction machinery, factory modified to meet the demands of specific activities, such as slope finishing and deep excavation.

Visitors to bauma will be able to test their skills on the dump truck simulator and enjoy a virtual view of some selected Hitachi machines. They will also be able to download a dedicated bauma app in advance to ensure that they have the best experience on the Hitachi stand. "Our team has worked hard to create an engaging and stimulating environment on our stand this year at bauma," says HCME president Makoto Yamazawa. "With such a wide variety of our construction equipment on display, we hope that there will be something of interest for everyone."







HYDRAULIC EQUIPMENT FOR MOBILE MACHINERY

GENERATORS
VARIABLE GENERATORS
WELDING GENERATORS
MAGNET GENERATORS
MAGNETS
INSTALLATION VALVES

POWER WASHERS
STREET WASHING UNITS
PIPE CLEANING UNITS
DUST SUPPRESSION
DRILLING FLUID PUMPS
FIRE FIGHTING SYSTEM

AIR COMPRESSORS BIN WASHING SYSTEM POWER BOOSTERS POWER TAKE-OFF VIBRAS ETC.





European water jetting forum meets in Brussels

In February the European Water Jetting Institute (EWJI) hosted the European Water Jetting Forum 2019 in Brussels with some 20 participants from national associations, contractors and manufacturers in attendance.

Water jetting global standards was one of the most important topics of the recent water jetting forum, with an overall presentation by Kerry Siggins. Chief executive of StoneAge from Colorado, USA, a company that designs and manufactures high pressure water blasting tools and equipment for industrial cleaning. Kerry shared her knowledge and experience in participating in the global standard process, stating that, "The global safety associations must partner with all three stakeholders (equipment manufacturers, contractors and asset

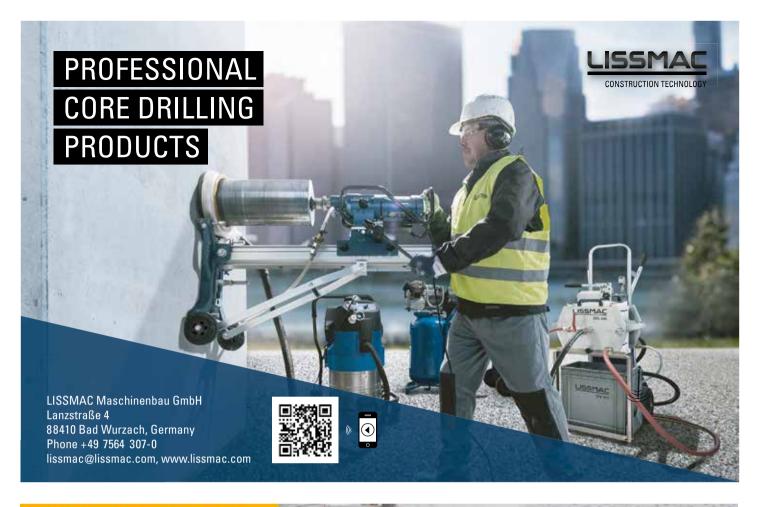
owners) to implement more stringent and standardised best practices."

The beginning of the global standards process started in May 2018 with initial meetings with various global safety organisations and asset owners at the Sewage Technology, IFAT international trade fair. The primary fundamentals of safe water jetting operations' were completed in October 2018. These were ratified in November by water jetting associations in Europe, USA and Asia, as well as multinational companies contracting

water jetting services including BASF, Dow, DuPont and Total. The standardisation process will now continue to, for example, formalise a global industrial cleaning standards committee, perform a gap analysis of the various standards used around the world, promote and market the importance of using basic hydro-blasting standards and the use of automation.

The water jetting forum also included presentations and discussion related to contractors in order to provide advice on assessment, safety and accreditation





THREE NEW FEATURES FOR USER SAFETY

INTERFACE

The new interface is developed for work at a safe distance. You operate the robot through the interface on the robot or on the remote control box. They are identical. The interface consists of two separate parts, one focused on operation and the other focused on service. The settings are easy to reach with just a push of a button.

COLOR DISPLAY

The color display located on the robot is a 7" screen with a resolution of 800 x 480 px. It has nine push buttons and a rotary encoder. One of the most important updates is that you maneuver between controls and options using a rotary encoder instead. The color display will be available on all of Conjet's 7 series robots.

REMOTE CONTROL BOX

The remote control box, Conjet Color Display, is equipped with a 4,3" LCD color display with 2 mm thick, protective Gorilla glass and a resolution of 480 x 272 px. It utilizes the surrounding light to give a sharp and clear image in more difficult environments. The technology is developed to be electricity-saving. The operator no longer has to be close to the robot during operation. Instead, the operator can control every aspect of the hydrodemolition at a safe distance.



Antiggarvägen 14 SE-136 44 HANDEN Sweden Tet: +46 (0)8 55 65 22 44 www.coniet.com



PDi reports



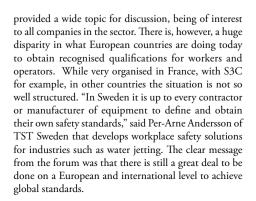
Stuart Harwood of the French work safety association S3C.



Workshops about European qualification for workers and equipment operators.



John Jones from the UK Water Jetting Association.





Kerry Siggins, of StoneAge in Colorado, USA.



EWJI manager Jose Blanco.

example, Stuart Harwood of the French work safety association S3C (système de certification, cempteténce et conformité) presented how his organisation certifies competence in the field of water jetting in industrial situations in France. This is done by creating technical standards and organisational practices, and by using programmable or remote control machines wherever possible. Additionally, it acknowledges the individual skills of personnel carrying out activities in these areas

that can improve the industry knowledge base. For

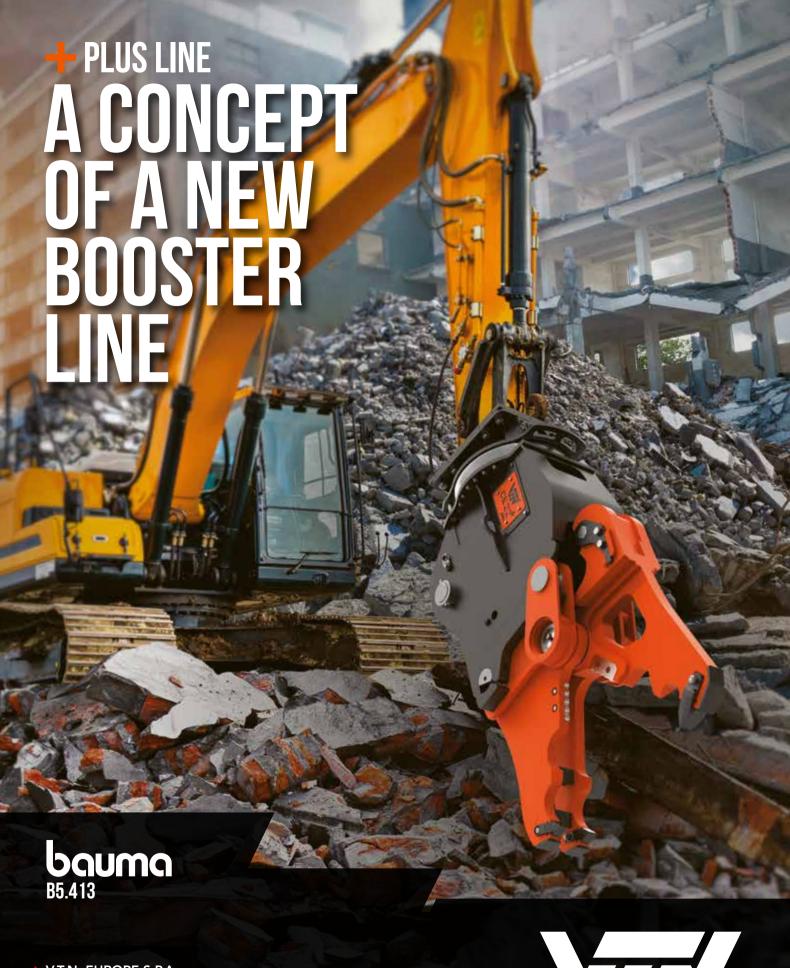
There was also a debate about the European qualification for workers and equipment operators that

sharing and studying members' experience.

for both asset owners, and contractors, as well as by

About EWJI

of similar organisations at European level. The aim is to establish an umbrella organisation



V.T.N. EUROPE S.P.A. Via dell'Artigianato 41/43 36026 Cagnano di Poiana Maggiore · VI · Italy vtn@vtngroup.com www.vtneurope.com



PDi site report



Excavator mounted cutter makes pile cutting safe and efficient

Construction contractor Niskasen Maansiirto Ltd. specialises in water supply, pile driving, sheet piling and excavation support projects. MotoCut's automatic pile cutter has made its work more efficient while improving worksite safety, with the company now able make accurate estimates of cutting schedules and save their cutter operators' arms and necks.

Construction Manager Raimo Isopahkala is responsible for the piling operations and equipment management at Niskasen Maansiirto Ltd. "We currently operate 10 excavators and two pile drivers. Our company has 25 employees," Isopahkala says. The company started using MotoCut's automated pile cutter in 2015. The cutting machine is attached to an excavator and also takes its running power from it. When the automated cutter was first introduced it was taken into active duty right away at an ongoing worksite with approximately 9,000 piles. Before the machine, some 6,000 piles had already been cut manually.

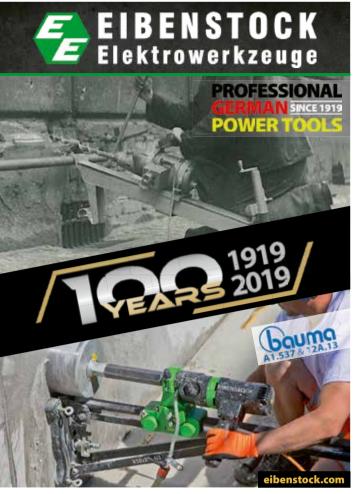
"We cut the remaining 3,000 piles with the automated cutter. The difference in daily work was huge. A big load was lifted from our people's arms and necks," Isopahkala recalls. "Before MotoCut, we operated a hydraulic pile saw that had to be manually held throughout the cut. It was physically exhausting. So, keeping our people safe and in good working condition in the long run was a key reason for getting the MotoCut unit."

High accuracy in estimating pile cutting schedules

One of MotoCut's key benefits is the fact that it improves worksite safety. Isopahkala believes that the MotoCut unit also helps them win new projects. "We can now estimate pile cutting schedules with much higher accuracy than before. The cutting rate stays constant from day to day. In the long run, and in larger projects, there is a significant difference in performing the cutting work manually or with the automated cutter. If you want to cut piles accurately, safely and efficiently, I genuinely recommend MotoCut," Isopahkala concludes.









DUTCH QUALITY TAKES YOUR PROJECTS TO THE NEXT LEVEL



- Manufacturer of high quality diamond tools
- Solid and stable professional core drilling rigs
- High quality Diamond segments, Diamond corebits & blades,
- Frequency regulated, fully automatic, electric floorsaw machines.
- Produced with care and made with the best materials. vast experience in customized products and private label

Diacom Trading BV Bijlmermeerstraat 72 2131 HH Hoofddorp The Netherlands

T +31 (0)23 - 561 52 75 +31 (0)23 - 561 52 73

E info@diacom.nl

W www.diacom.nl

THE PENTRUDER



HFi SYSTEM



Low weight

13 kg

Very robust and low maintenance

Waterproof, IP67

Robust and repairable connector

Made in house for maximum durability. Replace connector inserts easily with standard hand tools

Electrical safety features

Highest EMC level

Built in RCCD - Residual Current Breaker Type B

LOW WEIGHT

Very compact, high power machines

RS2 wall saw weighs under 25 kg with max output power of 18 kW

SHORTER SETUP TIMES

Quick disconnect coupling for blade

Easy fitting of blade

Only one connector

Simple to connect and disconnect

Light weight, easy to fit blade guard

Best protection and handling

BUILT FOR LOW MAINTENANCE

Designed with the customer in mind

Less components

Very easy oil change

Connectors service needs only hand tools

Efficient slip clutches for all motors

Brushless feed motors







Delete is one of the leading environmental full-service providers in the Nordic countries. Delete offers specialist competence with purpose built solutions and professional equipment through three business segments: Industrial Cleaning Services, Demolition Services, and Recycling Services.

For more info visit: www.delete.fi/en

Delete*

WE DELETE YOUR PROBLEMS.



Simex's 350m² stand at bauma is testament to the company's ongoing technological and industrial development and positioning in global markets. Simex now offers one of the broadest portfolios of equipment for applications ranging from road maintenance to utilities installation, recycling and demolition right through to quarrying, mining and tunnelling. The portfolio is organised into 25 product ranges with a total of 80 models. Simex has also started construction of a new plant that will allow the company to step up production when completed at the end of 2019, and is expanding its sales network into North America, India and Africa.

New products and a well-represented range

Simex's bauma stand will showcase new models designed for the road sector. Among other products on show are different versions of the updated RW 500 wheel saw, together with the CT 2.8 wheel compactor and the ST 160 and ST 200 asphalt floats. Visitors to the stand can view the RS 16, an attachment designed for creating rumble strips, which has the adaptability to perform two additional functions, making it a fully -fledged 3 in 1 attachment (rumble strips, regular milling of asphalt and removal of road surface markings).

Representing the family of TF cutter heads, now comprising of 10 models, will be the small but powerful models TFC 100 and TFC 50. The TFC 100 can be mounted on 2.5t to 4t mini excavators, whereas the TFC 50 is designed to be coupled to mini excavators weighing 1.2t to 4t. The TFC 50 and TFC 100 cutter heads can excavate their entire width thanks to an in-



novative system with a central chain that leaves no areas unmilled, enabling the attachment's working capacity to be exploited to the maximum. Especially suited to nursery and forestry applications, such as cutting trunks and roots, these attachments prove highly effective for digging small trenches on rocky terrain or excavating small manholes or utility vaults for water, telephone or electrical lines.

The TF 50 and TF 100 cutter heads can also be used very effectively for milling walls in prefabricated concrete or for removing plaster. Thanks to the limited weight and size of the prime movers they are coupled to, and their low operating noise, they are ideal for the refurbishment of civil and industrial buildings, an application where their low noise levels in confined spaces are particularly appreciated.

A new coordinated image

At bauma Simex will also launch the new company motto: 'Heavy made easy', a concept that sums up the ability of Simex products to make an easier job of what is usually a more challenging and complex task. The new motto is matched with an updated coordinated image, including presentation of new promotional material and merchandising, not to mention a completely renovated stand and launch of the new web platform. The website offers improved browsing with a special focus on content and direct contact with the company.

On 10 April, in a repeat of its success at the last bauma, the company will host an evening gala by invitation to be attended by customers, friends and representatives of national and international trade media.

Dymatec celebrates 25th anniversary

2019 is shaping up to be a huge year for Dymatec, the leading manufacturer and supplier of diamond drilling and concrete cutting consumables. Not only is it the firm's 25th anniversary, it has also announced significant developments across both its company operations and product range.

Cutting it for 25 years

On 15th March 1994, Dymatec cautiously opened its doors to the drilling and sawing market, not knowing whether there was much potential, nor how the products would be received. The aim was to be a supplier with an unparalleled level of service that was identified as key to the company's growth. In 2000, the company moved into a new purpose built facility investing in its first production equipment, providing the opportunity to produce diamond tools to its own specification, meeting the specific demands of its growing customer base.

As part of further expansion and growth, Dymatec moved into larger premises in 2018, having outgrown its previous space, and set about a significant refurbishment project to transform the space into contemporary offices with meeting rooms alongside an increased production and storage facility. Jeremy Newton, managing director of Dymatec said: "Today, we look back and reflect on 25 years that has made Dymatec the company it is today. We would humbly acknowledge that the key factor has been the loyalty of so many great customers who have trod this path

of development with us. We would like to say a huge thank you to each and every one."

Dymatec launches into US market

Following extensive product testing, Dymatec officially began operations in the US market in February 2019 with the opening of Dymatec USA LLC located in Florida. Over the past two years, Dymatec has tested its diamond products in a variety of areas, on different aggregates, throughout the country, and directly with professional drilling and sawing contractors. Based on the positive and rewarding results seen in the testing, Dymatec committed fully to the US market earlier this year with the opening of its Florida headquarters, and on the ground staff covering both sales and day to day administration.

Dymatec products are also held in stock in Tennessee, with the company aiming to have its new distribution hub in the mid-west operational by the middle of 2019. Jeremy Newton, said of these developments: "We have seen a fantastic response to the launch of Dymatec in the US, and this further development in terms of our distribution hub is already being welcomed by many customers who appreciate a fast response time for orders. Combined with our experienced 'on the ground' sales team, the US market can expect a comprehensive service from Dymatec that is hard to beat."

New blade and core laser production equipmentDymatec has also expanded its in house laser production

capabilities with the installation of new blade and core laser manufacturing equipment. The new laser welding production machinery will focus on the manufacture of Dymatec's SDF blades, Turbo S and Turbo B core drills, with enhanced output capabilities to help meet the growing and significant demand for these superior diamond consumables.

Dymatec's enhanced production capability is now offering: diamond core bits from 10mm up to 1,500mm, and diamond blades from 105mm up to 2,200mm. All products can be made in a wide variety of thicknesses and segment specifications for even the most demanding aggregates anywhere in the world. All Dymatec's superior diamond blades feature unique SDF layered innovation. This latest improvement to Dymatec's advanced manufacturing facility ensures the continued consolidation of its position within the global diamond tool industry, allowing it to respond quickly and efficiently to industry needs.



New hybrid dust suppression machine

The new V22Orca is a dust suppression machine designed specifically for countries with colder climates. If, due to the cold temperatures, it is no longer possible to suppress dust using water mist, the brand new V22Orca immediately makes snow. Although snow cannons have been used in the past in summer, these products could not be used for dust suppression. Additionally, they are not stable enough for use in mobile applications (on trucks, for example) as even dust suppression machines with built in heating start to reach their limits when the temperature reaches a few degrees below zero. The result is that they merely generate freezing rain.

This all means that the V22Orca provides effective dust suppression all year round. Ultimately, this hybrid solution may be defined as the 'machine for extreme conditions', since it easily suppresses dust up to a temperature of +50 °C (with water mist), while in winter it can operate down to -25 °C (with snow).

What makes the V22Orca unique

V22Orca is the first hybrid solution on the market, capable of suppressing dust using water mist in sum-



mer and snow in winter. Snow is particularly suited to suppression, since the dust particles bind with the snowflakes. The V22Orca makes it possible to effectively control dust in northern countries, where temperatures are particularly extreme. It is equipped with an air compressor (for snow) and nozzles (for water mist), and on the nozzle crown there are also nozzles that can generate snow. Depending on the atmospheric temperature and the humidity in the air, the machine automatically transitions from summer mode (water mist) to winter

mode (snow). There are four different water channels, all of which can be remote or software controlled.

The V22Orca was designed specifically for northern countries, or countries where temperatures are particularly extreme. It is particularly suited for any type of industry, including demolition, ports, loading devices, mines, open air quarries, and so forth. The V22Orca will be presented for the first time at the bauma in Munich. The EmiControls stand will be located in hall C5, at booth 512.

The Alternative Demolition Robot

RDC 15:10

1 Tonne, 15kW 32A 415v

RDC 22:20

2 Tonne, 22kW 63A 415v

RDC 22M-D

2 Tonne, 22kW Diesel







SDF FLOOR SAW BLADES



Who says you can't improve on perfection?

The SDF Floor Saw Blade Line Up available in all sizes from 450 mm to 1500 mm

Now featuring the P30N, new and improved version of our bestselling P30, still the fastest cutting blades you can buy.

Just when you thought it couldn't get any better.



Fastest cutting flat saw blades on the market



450 mm to 1500 mm



Same long life of the bestselling P30



A range of thicknesses available



T+44 (0)1582 599 933

Esales@dymatecuk.com

T+001 (727) 748 4934

Esales@dymatecusa.com

www.dymatecuk.com



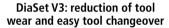
Dr. Fritsch sets the standard in the diamond tool industry

The production of high quality machines, a fully automated robot and a hazard free metal powder will be shown at bauma 2019 (hall A1. booth 538) by Dr. Fritsch. with the new products setting high standards in terms of cost and process optimisation.

Dr. Fritsch is a leader in the diamond tool industry, and the only company which offers the combination of state of the art diamond tool equipment and expertise in material production. As a pioneering pacemaker, the family owned company offers customers a comprehensive range of products and services that are innovative, powerful and tailor made. "We have made it our continuous objective to help our customers with our product range and service, to operate economically and to gain important competitive advantages in their markets. I would like to thank all our employees for their commitment and their work which allows us to present ourselves at the bauma 2019 as a pioneering pacemaker," says Ute Wilkinson, president of Dr. Fritsch.

Demonstration of precision

At bauma Dr. Fritsch will focus on the 'Volumetric Cold Press' KPV 300, which produces four segments with set diamonds per minute. One segment consists of several granulate and diamond layers. "The KPV 300 has a pressing force of 400kN and is designed for a die of Ø 120mm. This enables the user to either press a higher green density or a large number of segments simultaneously," explains Uwe Funk, head of development at Dr. Fritsch. Short changeover times, maximum flexibility and a user friendly touch screen are major advantages of the KPV 300 in addition to the high productivity.



The high productivity and precision in the production of segments with set diamonds on the KPV300 is based on the diamond setting unit DiaSet V3.

"Our patented blow off system ensures a precise diamond positioning in each segment and reduces tool wear," explains Uwe Funk. However, the performance of the DiaSet V3 has many more advantages. It can set up to 1,000 diamonds per layer and in combination with the KPV 300 press up to 27 layers, alternating powder and diamonds. Due to the movable DiaSet module, a more direct access to the machine is ensured, allowing an easy and fast tool changeover.

Stacking system SGS-200: efficiency and precision in the production process

The advantages and efficiency of automation are to be demonstrated by Dr. Fritsch's "Segment Graphite

VIRIDIS by Dr. Fritsch

Stacking System' SGS 200. "The demonstration machine stacks green compacts and graphite punches fully automatically. Another contribution to efficiency and precision in the production process," emphasises Funk.

Sustainable metal powder production: 'Viridis' - hazard free and environmentally friendly

For most companies today it is an important to minimise any risk arising from their products and production. However, most of the materials used in the segment production can be said to be harmful. "Sustainability has therefore been an important factor in our development work for many years. Finally we have succeeded in developing a powder bond which poses no danger to human health and the environment and at the same time meets our requirements for processing parameters," explains Elke Ade, head of the Metal Powder Business Unit.

With the 'Viridis' powder range, Dr. Fritsch presents at bauma for the first time powders which truly fulfil the above requirements. "Numerous customer tests have already proven its suitability in special fields of application, such as concrete drilling and wall sawing. A sawing test with Viridis-100 in hard granite has shown a slightly longer life time than pure cobalt segments as well as a better free cutting performance," says Elke Ade. "We are continuing on the sustainability path and are already developing new products. Some customers are currently testing Viridis-200, which is our second product in this range."

Hartl announces new generation bucket crusher

2019 sees Hartl launch its next generation bucket crusher, series 'R', with a reverse crushing function and an upgrade on size with a stronger design.

Hartl's chief engineer Georg Haberfellner says of its latest development: "The new generation of our bucket crusher is added with a special hydraulic system providing a unique reverse crushing function. This new development allows the operator to run the crusher in complete reverse direction, which grants an easy and fast release of blockages in the chamber of the crusher. The result is significantly higher and much more constant production as well as more efficient and convenient

Chief executive officer Dominik Hartl summarises: "The new generation is built as standard in a heavy duty (HD) version and prepared for the hardest and most difficult crushing applications in the aggregate, mining and recycling industries. The combination of the new reverse function and our unique up thrust toggle jaw crusher design provides our customers with highest production rate at lowest wear cost and a cubical shaped end product which is second to none.'

As well as bucket crushers, Hartl continues to offer a complete series of bucket screeners in its attachment line. The HBS screeners have an extremely wide inlet area (meaning that the operator can take more material into the chamber) has more screening efficiency in the drum, and delivers more and faster screened out material. The Austrian based attachment manufacturer also looks forward

to a successful market launch of its new drum cutters and grapples at the bauma show where it will exhibit at hall B2, stand 226.











Demarec will be unveiling several new developments at bauma from its exhibition stand FM713/2.

DCC-30 and DCC-50 2 cylinder concrete crushers

Two types of cylinder concrete crushers will be exhibited at bauma by Demarec: the DCC-30 which is suitable for machines between 20t to 35t and has a jaw opening of 1150mm, and the brand new DCC-50 for machines from 35t to 55t with a jaw opening of 1500mm. The DCC line now consists of six models suitable for machines with weights between 18t to 80t. The basis of the lines development is the increasing demand for a powerful 2 cylinder concrete shear with a satisfactory operating weight. This makes the DCC extremely suitable for high reach demolition machines. In combination with the newly developed 'DemaPower' 2.0, the cylinder and tailored jaw geometry of the DCC concrete shears produces 25% more force on average than similar shears, ensuring faster cycle times.

DXS-40 and DXS-50 scrap shears with 'DemaPower' 2.0

The DXS-40 is suitable for machines with a weight of 25t to 32t, with the DXS-50 being suitable for machines between 35t to 50t. The Demarec DXS scrap shear with its 360° rotation has been engineered to provide users with a scrap shear with a maximum force, high speed and an optimal weight to performance ratio for daily use in scrap yards and demolition sites. With three different mounting options, the DXS line is available in six different sizes, suitable for excavators from 14t to 100t operating weight.

'Multi-Quick' processor MQP-30 with C-bek

Demarec's multi quick processors have been developed for efficiency. The MQP (Multi Quick Processor) is available with jaws suited for the cutting and pulverizing of concrete constructions, reinforced concrete, and for the cutting of steel constructions and scrap, with all jaws being suited for the heavy duty tasks associated within demolition and recycling. The MQP is equipped with two rotation motors with shock valves for extra rotation power. Over more, the oil transit has been supplied with

an extra channel which can be optionally equipped with a greasing system or water spraying system. Demarec MQP's have a very advantageous power to weight ratio and a big jaw opening. By using the new 'DemaLink' system, which has been developed by Demarec itself, the jaws can be changed hydraulically extremely rapidly and easily, thus in less than 10 minutes the MQP can be changed from a scrap sheer into a concrete pulveriser or a concrete cutter.

Heavy duty demolition and sorting grab DRG-27 with integrated OilQuick OQ70/55

The Demarec demolition and sorting grabs have long been used in demolition applications, with the proven concept being widely used in recycling and other applications as well. At bauma the DRG-27, suitable for machines with a weight of 20t to 30t, will be exhibited along with the DRG-25. The grabs are characterised by their powerful closing strength and the robust construction of the yoke which has a box frame with wide pivot points using bearings and 'over dimensioned' pins and bearings.

The so called 'Delta-Box' frame construction in combination with a single large diameter cylinder ensures low reactive forces at the hinging points. The application of a single cylinder makes the grab easy to service and reliable because of the simplicity of the hydraulic system. The shells are equipped with a perforated shell plate made of high grade material as standard. This construction gives extra torsion rigidity to the shells, prevents material getting stuck in the shells, and gives optimal visibility on the job. All grabs are also fitted with filters in the rotation circuit as standard. The application of the standard load safety valve in the grabs open / close circuit ensures operational safety when working with the demolition and sorting grabs. For example, unsafe situations when picking up and laying dock boards are avoided as is the avoidance of the oil overheating as the machine keeps up its cycle speed.

'Multi shear' DMS05 with C , S , and V Jaw

The DMS multi shear is the ideal flexible shear for use with midi excavators. The DMS is a truly a multifunctional shear thanks to the mechanical change system and

the wide range of available jaws. The jaws are available for cutting through reinforced concrete (DMS-05-C), scrap (DMS-05-S), and for cutting cables (DMS-05-V). The DMS-05 can be used for both primary and secondary demolition work. All jaws are fitted with replaceable wear parts where possible, with the jaws being able to be quickly and safely changed in just a few minutes.

Hydraulic hammers

Demarec has developed, and will be launching at bauma, a brand new range of hydraulic breakers up to 15,000kg (said to be the biggest breaker on the market today) which are suitable for carriers of 0.8t-200t in weight. The breakers are suited for any job, from simple excavation, to use in quarries and mines. The FX series breakers are suitable for secondary demolition work, excavations in quarrying, working in urban areas, pipelines and railway tunnels.

The SB series is suitable for carriers between 0.5t – 11t, have a 'monobloc' body construction. The breakers are manufactured in one piece and there are no tie rods. The hammer works with nitrogen inertial energy recovery, with the gas giving more power to the machine and also reducing stress on the arm of the excavator. In the past the hammers that work with gas energy recovery requires frequent refills. With the SB range, using special sealing rings on the floating support, increases by 300% the residence time of the gas. The particular body construction, closed casing box, and the insertion of sound absorbing material, provides low working noise levels.

Other equipment exhibited

Drum cutters suitable for machines from 6t-60t, and a line of four crusher buckets for machines from 15t to 60t will also be exhibited at bauma. The buckets are said to have a breaking capacity of approximately 25% higher than others on the market, with the screening buckets having a long run in tray providing a large screening volume. Furthermore, there are three models available with milling wheels in different diameters. These are extremely suitable for removing rocks, concrete foundations, concrete decks and walls, and so forth. These make them particularly suited to working in places where little vibration and noise is permitted.



ROBUST AND LIGHTWEIGHT ALUMINUM DESIGN







Perkins at bauma Munich 2019

Perkins is showcasing its complete EU Stage V engine range, future technologies, aftermarket services and digital solutions at bauma Munich. Choice and customer collaboration, and the providing of the right solutions for OEMs, will be central themes on the stand as Perkins exhibits its widest choice of engines for today and for the future.

Five engines meeting the latest Stage V emissions standards will highlight the Perkins 0.5l to 18l (4-597 kW/5) engine range. Perkins will complement its range of off highway diesel engines by showcasing a further 3 engines highlighting future hybrid offerings. These new engines will be shown for the first time on the Perkins stand in hall A4, stand 336. "Perkins offers an industry leading choice of world class engines and options, so our OEM customers can be confident that we have the right engine for their market and application," said Steve Ferguson, Perkins president. "Whether it is our latest generation of Stage V engines, which meet the most stringent emission standards or a hybrid product,

our engineering teams work side by side with those of the OEM to develop a bespoke solution."

Hybrid engines

Perkins has significantly invested in hybrid engine research and development projects, and at bauma 2019 will be featuring a range of technologies that will add real value to OEMs as they design the next generation of off highway machines. Matt Coleman, product director said: "For construction machines, it's not sufficient to simply carry over hybrid or electric technologies from other sectors such as truck, automobiles or marine. The duty cycles, operating conditions and packaging constraints for off highway machines drive the need for specific configurations that are highly customised to the individual application. Through our close technical collaboration with our OEMs, and using a huge amount of real field data, we can develop solutions which are truly relevant to the construction sector. By collaborating with

Perkins, OEMs can accelerate their research and development programmes, saving themselves time and money."

EU Stage V

Perkins will display a range of engines that meet the new Stage V emission standards. Perkins Stage V technologies include common rail fuel systems, selective catalytic reduction (SCR), diesel oxidation catalysts (DOC) and diesel particulate filters (DPF). To highlight the compact and flexible nature of its offering, the high power after treatment system used on the 1200 Series will feature on the stand.

First choice for parts and service

For the first time, Perkins will have a dedicated parts and service presence at its bauma hall A5, stand. Machine owners and operators can visit the parts helpdesk; speak with the Perkins technical team; and meet representatives from the distribution network including BU Power Systems, the authorised Perkins distributor in Germany.



ROPS/FOPS certified.

That's what our job's about. Designing and making the perfect hydraulic tools for any application, and then making them available to users all over the world. We also have to make sure they stay efficient over time. Whatever job you have in hand, you can bet your life we're already working on that for you.











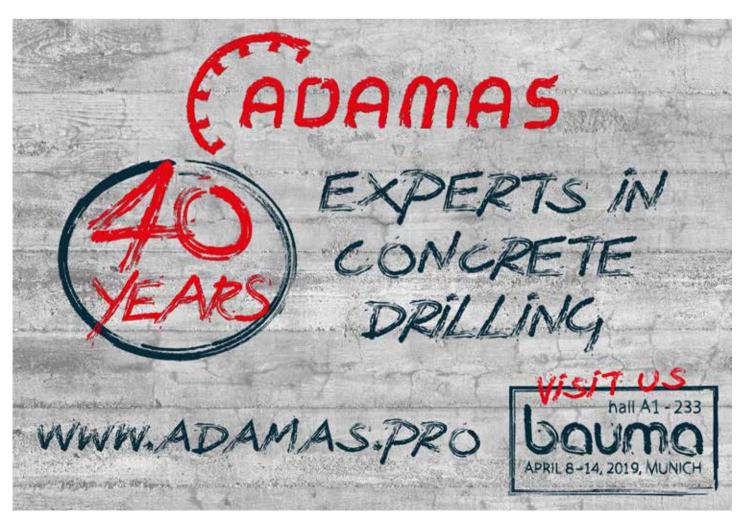






Bauma 2019 - April 8/14 - Munich - Open Air Area - FM 709/8



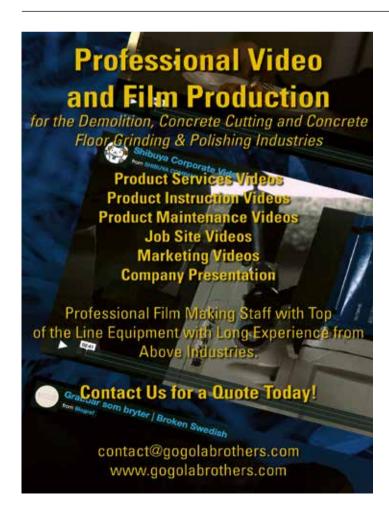


Bobcat launches electric mini excavator

At bauma 2019, Bobcat will launch its new E10e electric mini excavator, said to be the industry's first commercially available fully electric, zero tail swing (ZTS) mini excavator in the 1t class. With zero emissions, a low noise operation and a width of just 720mm, the new E10e can easily pass through standard doors and in and out of lifts, making it ideal for indoor applications such as demolition and basement construction. In addition, by coupling the E10e to an optional external Bobcat supercharger means that the E10e can operate for a full 8h working day.

The E10e electric mini excavator combines the successful features and high performance of the E10z for working in confined spaces, with its safe, near silent, zero emission design. As a result, Bobcat is confident that the E10e provides a very attractive solution for rental companies and contractors alike, for indoor demolition, basement projects and in other sensitive areas where low noise and/or night time work are mandatory.









RONDA® VACUUMS FOR LIFE





Heavy duty vacuum cleaners with filter technology second to none



Peun H-CLASS

RONDA® 200H Power



Peun EXTRACTORS H-CLASS

RONDA® 1800H Power



RONDA® 2800H



RONDA® 350

A large step towards a healthy work environment

V. BRØNDUM A/S

See the full range of www.broendum.com



The new PC490HRD-11 is the latest in Komatsu's range of heavy duty demolition excavators. It brings what the company claims to be 'a best in class' working height to the 60t machine sector, and can be configured in six different working arrangements. It carries a 2t demolition tool up to a height of 32m, a 3.34t tool up to 28m and it can work with a 5t demolition tool up to 17.4m, enabling operators to work through the widest possible range of activities with optimal control and safety.

Designed and developed, incorporating customer feedback by Komatsu UK (KUK), it is manufactured at the Komatsu Europe plant located near Newcastle, England. The whole machine works as a single complete system, with smooth and convenient operation, high precision, great stability and first class comfort. With an operating weight ranging from 55,200kg to 73,400kg, power is supplied by a Komatsu EU Stage V compliant engine, which delivers 270 kW at 1,900 rpm, with minimal environmental impact.

The new Komatsu PC490HRD-11 excavator is a highly versatile unit which can be easily configured for changing work demands. Komatsu's in house boom change system includes oversized quick connectors for the hydraulic lines to minimise back pressure and oil heating, without restricting oil flow. The system also features hydraulically powered pins, which are mounted inside the main boom structure, thereby reducing risk of damage.

Komatsu has also focused on the transportation of the PC490HRD-11. Every section of the working equipment is provided with tie down points and lifting eyes to allow the equipment to be lifted and secured onto a trailer safely. The machine itself has been kept as compact and light as possible, without compromising durability. The new excavator's standard undercarriage is mechanically variable: it keeps the weight down and maintains exceptional stability with a minimum transport width of less than 3m. The optional hydraulically variable undercarriage makes it exceptionally easy and quick to set up the machine on site, achieving a working width of nearly 4m.

Komatsu has also built in a number of features for increased operator convenience. For example, the front screen wiper and the cab tilt functions can be triggered without the operator taking their hand off the main controls. Stuart Blackham, design manager for demolition products at Komatsu UK, said: "We are really pleased that a machine that was designed, developed and manufactured here at KUK, and has been received so well, and will be used across Europe." He added: "There is a desire at Komatsu to continually improve and innovate, no matter how well our machines already perform. This new high reach machine is an example of how customer feedback, combined with our own invention and innovation, can help create a game changing machine."



THE SMART TECHNOLOGY FOR SURFACE PREPARATION



MILLING AND PLANING ON:

- Concrete
- Asphalt







GRINDING AND POLISHING

- Triple-headed planetary system
- BS-825 also with Remote Control

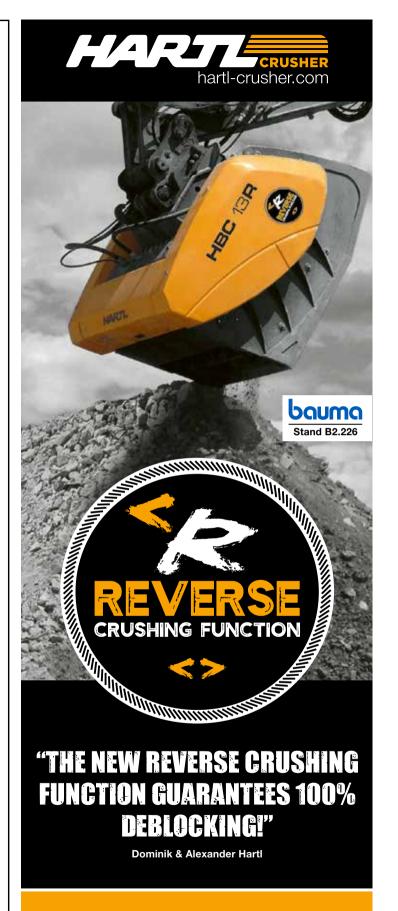




With AIRTEC machines and hand tools you work smarter not harder!

All equipment with dust collection systems!





MORE ABOUT THE REVOLUTIONARY "R" SERIES www.hartl-crusher.com



In January, Avant Tecno exhibited at World of Concrete in Las Vegas, USA. During its seven years of representation in the US, Avant Tecno has strengthened its position in gardening, construction and rental and is now ready to enter the demolition industry. The company has latterly increased its global distribution network, being sold in approximately 50 countries world-wide by distributors such as Nordfarm in Sweden. Avant also own its own sales companies in Germany, the United Kingdom and now in the United States. Recently the company has launched new products, with the introduction of the Avant 800 series being most newsworthy, as well as the announcement of the continuing development of electrically driven compact loader series, the E series, and the release of the Leguan 135 Neo.

Avant 800 series

The 800 series is the biggest and most powerful loader series, being able to lift up to 1,900kg up to 3.5m. It also possesses compact dimensions of 1.5m width, 3.4m length and 2.2m height. The weight of the machine starts at 2,5t which means it almost lifts its own weight, with its articulated construction making it versatile and powerful. Currently the 800 series comprises of two models: the Avant 860i which has a 42kW Kohler motor (KDI 1903 TCR), and a turbo driven diesel motor variant that meets EU Stage V regulation and American Tier 4 regulation. The Avant 850 is equipped with a Kubota V2403 36 kW diesel motor, and is designed for markets outside of the EU and the US.

The 800 series is equipped with a hydrostatic transmission and a hydraulic drive motor on every wheel, and has two speeds, a common feature on Avant's machines. The maximum speed is 30km/h and the oil flow for attachments is as high as 80l/min. A telescopic loader boom is a standard in the series, which can be extended and retracted by 825mm and gives a maximum lift height of 3.5m. The 800 series is equipped with the Avant quick attach system for attachments making any tool change easy. It has a certified ROPS/FOPS open cab as standard, as well as an enclosed heated cab as an option, being both spacious and equipped with large windows for visibility.

Electric drive

At bauma 2016, Avant Tecno launched its first battery powered compact loader, Avant 5e. Since then, the series has evolved further with a lithium ion battery powered compact loader, the Avant e6. Today, the series is 100 % electric, including the Avant e5 driven by an AGM battery, which ensures that there are no emissions and low noise levels. The machine is equipped with two electric motors, one for drive transmission and one for the hydraulic system, with the electric motors providing immediate and maximum torque as well as excellent lift and pull capacity. The machines have built in 230V battery chargers. The 1.4t machine has a lift capacity of up to 900kg, a lift height of up to 2.8m, and dimensions of 2.55m in length, 1.98m in height and 1.03m in width.

Leguan 135 Neo

The new lift Leguan 135 Neo is the first 'lift' built on an entirely new platform, making it more user-friendly. All operations are handled with a single joystick which simplifies and widens the use of the lift's boom. The platform is equipped with both automatic and manual levelling, with the automatic mode having been made easy to use via the push of a button. If the surface is sloped, the automatic levelling adjusts according to surface, with a built in automatic outreach control system that measures the cage load, with maximum outreach being dependent on this automation. Taking the boom down to transit mode is done easily by the pushing of a button, returning automatically to its transit position.

The 135 Neo has been made lower and narrower than its predecessor, with no compromise to off road capacity, with simplicity and service friendliness being integrated in the machines design. It is powered by a Honda GX390 petrol engine, equipped with an automatic revolution control and can be equipped with either 4WD or rubber tracks. As with all Leguan models, it can be supplied with a trailer, which means it can be operated without the need to take the unit off from the trailer. An electric motor (230V or 110V) plus remote operation for driving and outrigger operations are available as options.

Avant Tecno will be exhibiting at bauma in April, outside area, booth number: FN.1020/5.







THE DEMAREC TEAM WILL BE HAPPY TO MEET YOU AT THE BAUMA 2019!

STAND: FM.713/2



8.-14. APRIL 2019 MÜNCHEN

Please contact us for free tickets!



NEW PRODUCTS 2019!

DRUM CUTTERS

WHEEL CUTTERS

HAMMERS

CRUSHER BUCKETS SCREENER







In the end... It's only about the right tool

DEMAREC. De Hork 32, 5431 NS Cuijk, the Netherlands. Tel.: +31 (0) 485 442300, info@demarec.com

DEMAREC Deutschland. Im Rohnweiher 14, D-53797 Lohmar, Germany. Tel.: +49 2205 92027 0, info@demarec-deutschland.de

KINSHOFER UK. 4 Milton Industrial Court, Hors eld Way, Bredbury, Stockport, Cheshire, SK6 2TA. Tel.: +44 (0)161 406 7046, sales@kinshofer.co.uk

KINSHOFER USA. 6420 Inducon Drive - Suite G, Sanborn, NY, 14132. Tel. +1 (716) 731 4333, sales-usa@kinshofer.com



demarec.com







New mini hydraulic excavators

Five new models in the Cat mini hydraulic excavator line-up have been designed to provide users with what the company claims is the best performance, versatility, safety, operator convenience (and affordability) in the smallest possible packages for the 1t to 2t class. This customer centred approach to engineering has resulted in the new models incorporating industry leading standard features such as joystick steering (stick steer) and a tilt up canopy or cab, as well as new options, including air

conditioning and expandable undercarriages across the range.

The new model range allows customers expanded choices for matching machine capabilities and machine features to their applications, and comprises of: 301.5, 301.6, 301.7 CR, 301.8 and 302 CR. All the new models use the Cat C1.1 engine, a three cylinder diesel rated at 14.3 net kW available in configurations that meet EU Stage V emission standards as well as the requirements of less regulated countries.



Confirming its reputation as an innovator in the design of specialist attachments for excavators, skid steer and backhoe loaders, Kemroc has new product ranges as well as additional machines and systems to exhibit at bauma 2019. Attachments purpose designed for construction, demolition and mining applications have been developed to increase productivity and improve utilisation of carrier equipment. The centre piece of the Kemroc stand (number FN.1019/5) will be a new mixing attachment to produce in situ soil/cement structures, the KSI attachment, which has been designed in cooperation with Schönberger Bau GmbH. Other new products will be the EK 110 chain cutter, the ES 110 HD for use on excavators in the 20t to 40t range, the first model in the KDS range of diamond tipped cutting wheels, and the new KST range of compact stump grinders.





POWER IS
IN YOUR HANDS







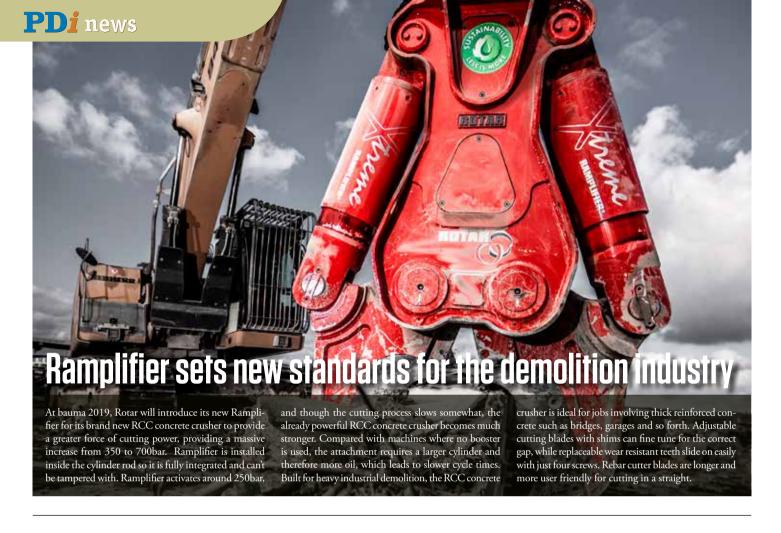








WWW.TEHMA.CH





Green Cut Early Entry Saws

The SRX saws feature an "upcut" blade rotation which facilitates in keeping debris out of the joint and a skid plate that minimizes joint chipping and spalling.

SRX-150 Early Entry Saw

The SRX-150 uses a 6-3/8" triangular shaped arbor blade, providing a 1-1/8 depth of cut.

• Honda GX160 Cyclone Air Filtration engine

SRX-2000 Early Entry Saw

The self-propelled SRX-2000 uses a 10" triangular shaped arbor blade, providing a 1-5/8 depth of cut.

• Honda GX270 Cyclone Air Filtration engine, available with pull or electric starter







1.800.421.5830 • mkdiamond.com

An American, family owned company since 1868.

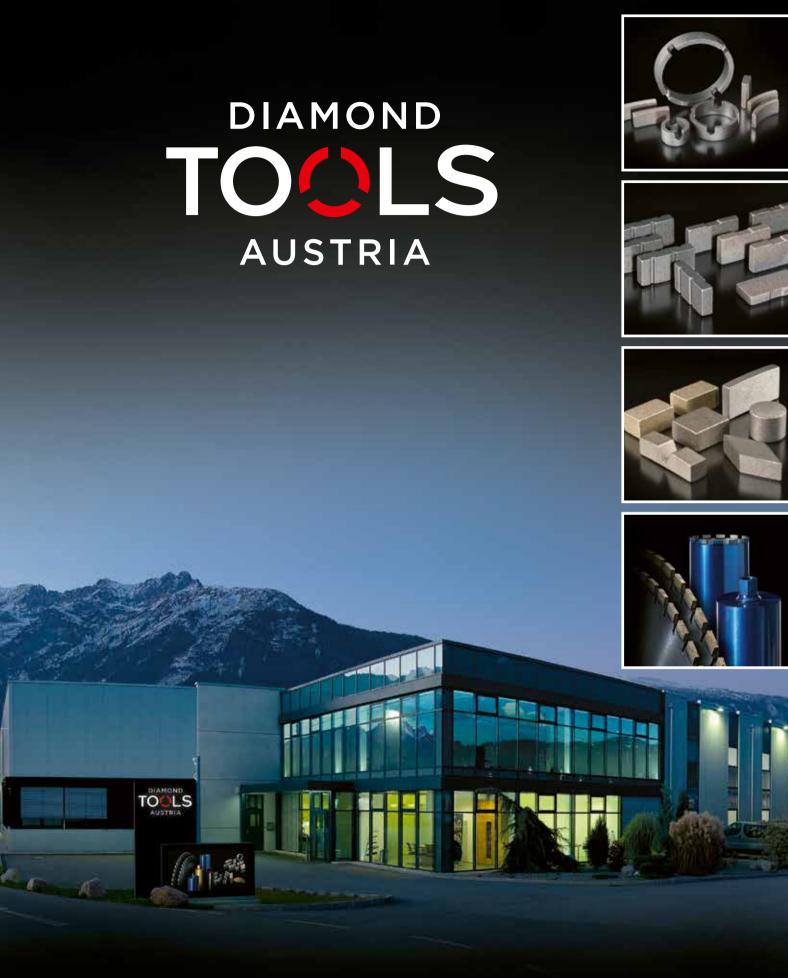
© 2019 MK Diamond Products, Inc. All Rights Reserved. Images and specifications are subject to change without notice. Honda is a registered trademark not affiliated with MK Diamond Products, Inc.





PLATTNER is producing diamond wire equipment as well as machinery for manufacturing and processing diamond tools. Innovation, precision and flexibility always keeps us one step ahead - since 1994!

www.plattnergesmbh.com



www.diamond-tools.at

Keestrack electric drive TECHNOLOG

Keestrack is said to now offer one the most versatile ranges of hybrid and plug in solutions in mobile processing technology. This applies to its screening plants, stockpile conveyors and to mobile track mounted crushers, with the company recognising the huge saving potentials and operational advantages of electric drives for highly flexible track mounted mobile processing. Keestrack's introduction of such technology goes back to 2012, with the first diesel electric classifier being introduced. This was followed in 2013 by the first hybrid scalper and the first hybrid crushers with electrified conveyors, followed by electric crusher drives.

Today, Keestrack offers 80% of its total product line as diesel electric hybrid variants, with 75% of them with fully electric plug in systems. Depending on technology, type of application and production capacities, customer requirements from the equipment are quite different, but are clearly related to the specific additional investment for the hybrid or all electric system options. According to Keestrack there is a 10-15 % higher initial investment for stackers and screeners, and 15-20 % for large mobile crushers, but the company believes that the additionally investment costs are more than justified by operational savings.

Keestrack will be exhibiting its offering at bauma 2019: Outdoor area North, Stand: FN1017 / 1.



















First from Tobroco-Giant

At bauma Tobroco-Giant will present its first fully electric loaders: the G2200E and G2200E X-TRA. The models combine the advantages of an articulated loader with near silent operation and zero emissions, making them ideal for indoor applications or construction sites in urban areas. The G2200E machines can be configured according to customer requirements, beginning with the selection of a standard or X-TRA

model. There is a choice of three lithium ion batteries as well as a plethora of optional extras. These include an EU certified cabin with safety roof or foldable safety roof, heating, and up to three double acting functions. This gives customers the opportunity to assemble the machine precisely for the work that needs to be done at a competitive price. The range will be demonstrated and exhibited at bauma in April.



New crushing bucket from

The patented Vipermetal crushing buckets are specifically designed to crush construction and demolition materials. The crushed material is typically concrete, bricks, hard asphalt, wood or mixed debris, with the benefits of Viper's drum crushing bucket being high capacity, low operating cost and ease of use.

www.vipermetal.fi



New generation of universal processors

The Italian company Trevi Benne will introduce to bauma visitors to its stand a new generation of universal processor, the MA series. Aimed to delivery productivity and efficiency, it is designed for the demolition industry, with a rapid opening / closing cycle and on site reliability. Available with 'Combi' and 'Swiss Kit', it is ideal for the demolition and crushing of concrete structures, as well as the cutting of reinforcing rods and metals. Visitors will be able to see the MA 25 model with 'Combi Kit', (total weight of 2,700kg) and is now available as a series of 5 models, ranging in weight from the MA 18 (1,900kg) up to the MA 65 (11,000kg). The entire range of Trevi Benne products will be shown at bauma in hall C5, booth 424.

www.trevibenne.com



Stage V power solutions for industrial applications

Visit us at



With a maximum power of 150 kW, the new 1204J engine allows OEMs to downsize and remove machine cost.

With high torque at low-speed, machine operators can be assured of optimum performance and lower fuel consumption.

With you at every stage



THE HEART OF EVERY GREAT MACHINE



extended lifespan, minimal maintenance and low operational costs, the compact HiLight Z3+ is powered by lithium ion batteries and provides enhanced illumination for metropolitan construction sites, outdoor events and industrial areas. Zero noise during operation and the absence of engine emissions ensure full environmental compliance in urban locations.

mented: "This launch represents a major leap forward in terms of what is achievable with a battery powered light tower. Before selecting the battery type, we undertook extensive R&D to ensure we would provide our customers with the best in class performance they expect; not just in terms of running hours, but also reliability, ease of use and total cost of ownership. The end result is the

HiLight Z3+, which offers a yearly reduction of 1t of CO2 emissions and diesel savings of more than 1,000l."

The HiLight range of battery, electric and diesel powered, LED and metal halide light towers is designed to offer the widest choice for construction, road works, public events, and industrial applications.

Kubota to exhibit large range at bauma 2019

Kubota's BUEE (Business Unit Engine Europe), boosted by a record year in 2018, will showcase its most comprehensive range of power systems to date at bauma 2019. The line-up demonstrates the company's belief that there is no one single fuel type for the future of the off highway equipment industry.

Cementing its position as a trusted global brand within an increasingly uncertain world, Kubota's renewed focus on energy efficiency reinforces its environmental credentials and its customer centric approach. Hence Kubota is focusing equally on both new engine technologies and enhanced levels of customer after care. Highlights on display at bauma include the recently launched V1505-CR-T and D902-T, as well

as its widely anticipated new 09 series. Additionally, an evolved prototype of the new micro-hybrid engine, shown as a concept at Intermat 2018, will be showcased with the reference design.

With a requirement for new technology married to a growing need for trusted global brands in an increasingly uncertain world, Kubota's growing sales story and strength and depth of its engine line up has never been surpassed in our long history," said Yasukazu Kamada, managing executive officer and general manager of the Engine Division, Kubota Corporation. "As we enter a new period of demand for efficiencies, emissions compliancy and whole life costs, we must consistently improve everything we do from engine design to supporting our customers."

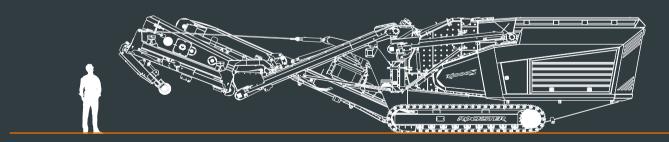
State of the art coring from Baier

Baier has been producing high quality power tools for over 80 years. Located in Stuttgart, Germany, the company exports to over 60 countries, and is considered to be a worldwide leader in both quality and innovation. The company has recently added to both its dry and wet dry coring ranges, which are able to process all types of stone. Fitted with a vacuum cleaner, unique soft impact system and titanium core bit, the Baier dry coring machines can easily cut through concrete with rebar, granite, and all kinds of natural stone. Baier supplies its BDB 825 with ø160mm diameter, and since April 2018, the two gear BDB 829 with a maximum diameter of ø250mm. In addition to its dry coring offering, Baier has a wide range of wet coring machines, starting at ø6mm up to ø550mm, all with 230V.



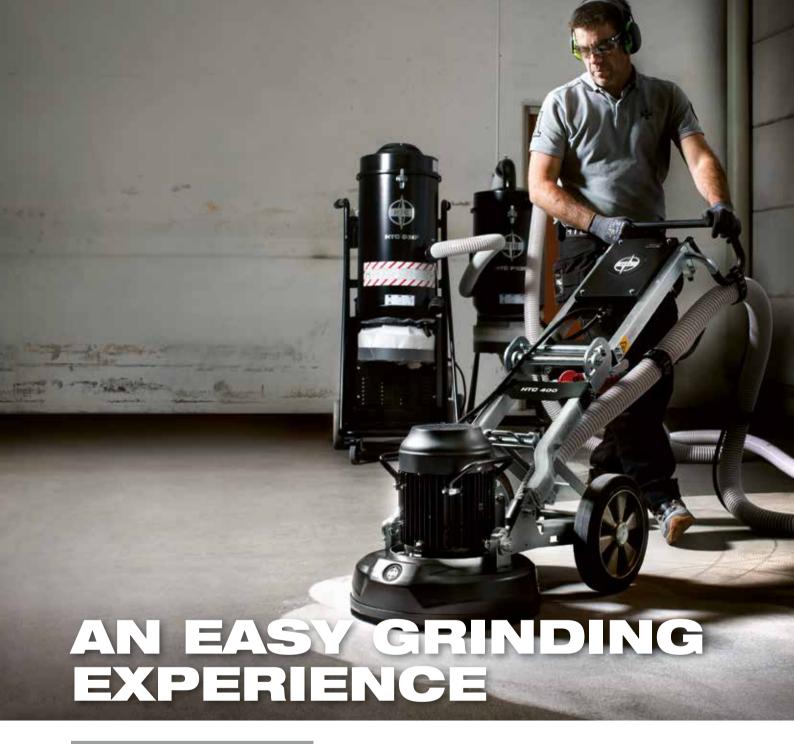
EXPERIENCE SOMETHING NEW

Demonstration of the R1000S on just 2 m². If you don't believe us, check it out!



BAUMA 2019 8.-14. APRIL HALL B2 BOOTH 214





HTC INTRODUCES: START & GRIND

HTC is introducing a new line of smaller grinders and dust extractors for professional use. With carefully engineered and user-friendly solutions for those smaller grinding jobs. Ease of use combined with safe operation, in all its simplicity. Start & Grind





