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

Phone: +46 8 631 90 70

E-mail: info@pdworld.com

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EDITORIAL STAFF

Editor-in-Chief

Jan Hermansson, Jan.Hermansson@pdworld.com

Assisting Editor-in-Chief

Anita do Rocio Hermansson,
Anita.Hermansson@pdworld.com

Editor: Vitor Hermansson, vitor@pdworld.com

Editor Europe: Mikael Karlsson,
mikael.karlsson@pdworld.com

Editor North & Central America

Jim Parsons, jim.parsons@pdworld.com

Editor South America

Luiz Carlos Beraldo,
luizcarlosberaldo@gmail.com

Editor Russia & Eastern Europe

Andrei Bushmarin,
andrei.bushmarin@pdworld.com

Editor Africa

Kevin Mayhew,
designmp@iafrica.com

SALES OFFICES

International Sales Director

Germany/Austria/Switzerland/UK & Ireland
/BeneLux/Finland/France/Spain/Portugal and Italy

Andrei Bushmarin
Phone: +7 921 949 27 81
E-mail: andrei.bushmarin@pdworld.com

Sweden/Norway/Denmark/Liechtenstein/North America/South America

André Hermansson
Phone: +46 (0)8 631 90 70, Mobile +46 (0)70 979 04 03
E-mail: andre@pdworld.com

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

Contact PDI editorial office in Sweden
Phone: +46 (0)8 631 90 70, Mobile +46 (0)70 979 04 03
E-mail: info@pdworld.com

Publisher

Jan Hermansson

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general assembly in 2019.

WELCOME TO IACDS AND

DIAMOND AWARDS AT BAUMA 2022

Bauma 2022 is right around the corner. Here are some updates on the IACDS annual meeting and Diamond Award that will take place at the Bauma show grounds. You also find a list of the exhibitors in hall A1.

Each bauma for many years past has been a milestone for the international umbrella association IACDS (International Association of Concrete Drillers and Sawers). The 2022 edition of bauma is no different.

IACDS annual meeting 2022

This year the IACDS annual meeting with the general assembly will take place on Thursday 27 October at the bauma show grounds in Munich, Germany. The meeting will take place in hall B1 and room B11.

IACDS Diamond Award 2022

The IACDS Diamond Award is an internationally recognised competition for the concrete sawing and drilling industry. In 2022, the Diamond Award will have two categories, Jobs and Products, to showcase the expertise of the contractors and the innovation of manufacturers. This international competition is organised together with the concrete sawing and drilling National Associations. In 2022, the Diamond Award ceremony will be held at the same time as the IACDS annual meeting on 27 October in Munich at the bauma trade fair. Specialised press and companies will be invited to the ceremony, where the audience will learn about the entries and the winners will be announced.

There will be a traditional mingle as usual on the fairgrounds, both before and after the awards ceremony.



From left to right: Julie White, former president of IACDS, honorary member Peter White and current president of IACDS, Michael Findeis.

This will be the perfect gathering place for the international concrete sawing and drilling industry. More information on the exact location will follow.

Informal dinner in the evening

In the evening of the 27th there will be an informal dinner at 19.30 at the Augustiner Bräustuben restaurant in the Munich downtown.

Sponsors of the IACDS event at Bauma

This year's sponsors of the IACDS annual meeting and Diamond Award are Adamas, GSSI, Heger Diamond Tools, Hilti, Husqvarna Construction Products, Hycon, Lissmac, Siegenthaler Consulting, Solga Diamant and Stone Divisor.

The list of exhibitors in bauma hall A1

As usual bauma hall A1 is the international hub for the majority of the world's manufacturers and suppliers of tools and equipment for concrete cutting, light and medium demolition, controlled demolition, concrete floor grinding and polishing, treatment of concrete dust and slurry, hydrodemolition etc. In the selected list you find the companies that you most certainly will meet there in October.

PROGRAM

15:00h – IACDS Annual Meeting
16:00h – Networking event
17:00h – Diamond Award ceremony

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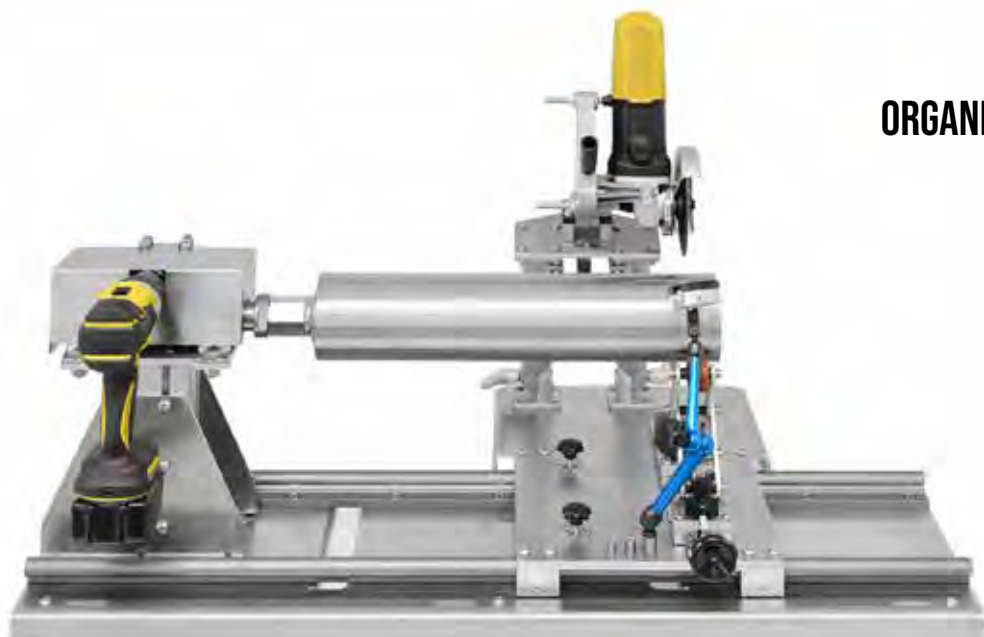
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An anxious audience waiting for the winners of the IACDS Diamond Award to be revealed



Winners and nominees.



Winners and nominees.

SELECTED LIST OF EXHIBITORS BAUMA 2022, HALL A1

EXHIBITOR	BOOTH	EXHIBITOR	BOOTH	EXHIBITOR	BOOTH
Adamas	A1.233	Fachverb. Bohren und Sägen	A1.138	PDi Magazine	A1.136
Airtec	A1.521	Flex	A1.319	Pentuder	A1.403
Aquajet Systems	A1.325	GSSI	A1.512	Saint Gobain	A1.437
Bartell	A1. 239	Gölz	A1.449	Scanmaskin	A1.338
Batmatic	A1.105	Hammelmann	A1.425	Schwamborn	A1.314
Braun	A1.215	Heger	A1.438	Sima	A1.125
Breaker	A1.414	Heylo	A1.503	Solga	A1.312
Brokk	A1.451	Hilti	A1.313	Sonmak	A1.514
C.M.P.	A1.517	Holmato	A1.431	Stihl	A1.327
Cedima	A1.349	Husqvarna Constr. Products	A1.137	Superabrasive	A1.213
Conjet	A1.509	Husqvarna Deutschland	A1.320	Thema	A1.128
Contech	A1.212	HydroTec	A1.403	Trelawny	A1.130
Di-Star	A1.500	ICS	A1.415	Tyrolit	A1.139
Diam Industries	A1.116	Idromeccanica	A1. 539	Urac	A1. 248
Diamond Tools Austria	A1.515	Impacts	A1.305	V. Broendum	A1.114
Diewe	A1.315	Janser	A1.102	Von Arx	A1.112
Dr Heinemann	A1.142	Kamat	A1.334	Wakra	A1.301
Dr Schulze	A1.149	Kaskod	A1.533	WEKA	A1.113
Dustcontrol	A1.549	Kern Deudiam	A1.422	Widicut	A1.126
Ehwa Diamond	A1.223	Klingspor	A1.541	Wirth Strahltechnik	A1.350
Einbenstock	A1.537	Lissmac	A1.249		
Eurodima	A1.402	Meijer Diamond Tools	A1.531		

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TALK OF AUSTERITY AND RECESSION CREATES CONCERN IN THE MARKET

When the winds of the recession begin to blow, concern grows among entrepreneurs, suppliers and employees alike. But is the concern always justified, at least to such an extent that it affects the business? Recession is not a new invention, but something that most people in the industry have experienced several times before. The recession is there to be fought. PDi's editor in chief shares his thoughts on the subject.

I was asked by a reader if I could comment on how I feel we should handle the impending recession. The reader thought that I have been around for a while in this industry and must have experienced several recessions. That's right, even though I am just a journalist writing about the industry and have never practically been working within demolition, concrete cutting, recycling, etc. But since I started working with this industry at the end of the 1980s, I have experienced a couple of serious recessions so I think our reader came up with a good suggestion.

So here are my views on how we should deal with the situation. For a number of years, the economy in Europe has overall run like a train. Particularly in my home country, Sweden. Inflation has been at the right level and interest rates extremely low, which has greatly benefited the economy for both companies and employees. This situation in the economy has not only affected the European market but many other markets.

The pandemic years not as bad as feared

When the pandemic broke out in the spring of 2020, everyone was on edge and it was feared that we would be hit hard financially. And sure, the market plunged in the first few months but recovered quite quickly, even



the stock market. Government support programmes helped the companies. It was actually the hospitality industry that was the big loser during the pandemic. In addition, when traveling was eliminated and other costs were reduced, many business owners were able to state that the pandemic years were actually not as bad as they thought, but rather good. We also learned a new way of communicating through webinars, 'Zoom' and 'Teams' meetings. The sectors of demolition, concrete cutting, concrete floor grinding and polishing were able to work effectively and were not as badly affected by the spread of infection, at least not as other workplaces.

But then came 2022. Russia invaded Ukraine and a full scale war broke out that shook the whole world. The war itself was the starting point for other economic changes that increased and worsened the market economic situation. Inflation began to increase dramatically in most countries. There was a shortage of goods and energy prices skyrocketed or energy deliveries failed. The pandemic had already taught us to live with shortages of components and long delivery times. Many negative factors came together and now we are on the brink of a new recession and we do not yet know when it will end. When things like this happen, it's easy to 'paint the devil on the wall' and make the situation much worse than it is. If it goes really far, the market will be paralysed and that is not good for anyone.

We have tackled recessions before

That we are heading into a slump, or we can call it a recession if you like, there is no doubt. We have been spared from this for many years so it is not entirely surprising that it is now happening. For many years, we have experienced a sharp increase in the price of, for example, housing. In the big cities, prices have more or

less tripled for villas and condominiums. Wages have increased sharply and those who traded in stocks have been able to see their stock value increase by several hundred percent. The drop is quite high, as are the gains in welfare.

What I want to say with this article, and now I'm talking about the global industry PDi has covered since 2000, and our Swedish title, Professional Demolition, since the early 1990s, is that it's easy to make a 'rooster out of a feather'. Since I started working in the demolition industry comprising of demolition, recycling, concrete cutting, hydrodemolition, grinding and polishing of concrete floors and more, I have experienced several ups and downs in the market. What we are experiencing now is far from the worst of previous recessions. I particularly remember the 1980s when housing values skyrocketed and there was a lot of construction. Since 1990, everything hit the roof. The demand was all of a sudden non-existent, everything was overvalued and disaster became a fact. Interest rates skyrocketed and many had to leave their homes. If you did experience personal bankruptcy, you were often left with high loans on properties that had more than halved in value. We are definitely not there today.

Even today though prices have risen dramatically, many European countries, the United States and several other countries outside Europe, have a very large lack of housing and that is a very important driving force for the economy. There is also the need for large levels of renovation of the infrastructure. Thousands of motorways, bridges and viaducts in Europe and the United States are in major need of renovation to mention but some examples. If there is still a need to build, there are always ways to carry out the construction, even though interest rates are now starting to rise.

I believe that new construction projects will decrease for a while which will be replaced by renovation and extension projects. The market finds its way, believe me. But new construction will continue to be important, albeit at a slightly lower level. If we get rid of inflation in say a year or so, everything will turn around again quite quickly is my belief. Maybe not to levels we got used to living with, but still to levels that are acceptable.

The conditions are better now before this recession

The severe recession of the 1990s taught us a lot and it would take until the late 1990s before it started to turn upwards again. Then came the next 'bang' in 2008 in connection with the Lehman crash in the USA which acted as the trigger. However, the recovery after 2008 came much faster than during the 1990s and the economy increased and strengthened strongly year after year. This has now led us to 2022 where we face the next swing in the economy, but the conditions for many countries are, as I said, much better now, as we still have a major need for new housing.

However, those who work in construction generally have a very good ability to change and adapt to the current situation when it presents itself. However, this may not apply to all companies, but certainly to the vast majority. It all depends on the conditions for the companies. Of course, if the economy was already strained during the boom, a recession could be the final straw. But most demolition and concrete cutting contractors have a lot of experience under their belt and probably don't need to worry unnecessarily about missed assignments. So keep the 'good spirit up' as that is the best way of conquering the situation.

Jan Hermansson

Editor-in-Chief, PDi Magazine

WELCOME TO BAUN



COME MA 2022!

Finally the bauma show in Munich is here once again, even if not exactly as before the Covid pandemic struck. But bauma is bauma, and is set to attract over 3,500 exhibitors from over 60 countries and maybe 600,000 visitors from well over 200 countries making it still the world's largest trade show. PDi Magazine will as usual be there covering the show from its own booth in hall A1.

Bauma is the world's largest tradeshow all categories. People all over the world love it. Although it can be a tough show to attend as it lasts for seven whole days. Roughly speaking, what is not available at bauma in terms of product does not exist, as it is the world's largest trade show in all categories of the industry. In effect, there is no other fair that can compare with it, whether in terms of the

number of exhibitors or exhibition space, with the show spanning machines, equipment and accessories for the construction and mining industries.

**Find out everything
about the show with PDi Magazine**

PDi Magazine is a trade magazine with a focus on demolition, controlled demolition, concrete cutting,

recycling, remediation, grinding and polishing of concrete floors, hydrodemolition, handling of concrete

bauma



dust and slurry, etc., and in this issue of PDi you will be able to find out about these industries at the trade show. bauma was originally supposed to be held in Munich in April this year. However, due to the Covid pandemic, the organisers decided in April 2021 to move the fair forward to 24-30 October 2022. This proved to be a wise decision that does not cause too much disruption for either the organisers or the companies that will exhibit.

PDi Magazine, with its sister magazine PDa Magazine, will of course cover bauma thoroughly as usual,

partly with the regular show edition, but also with this special edition that is to be distributed just before the fair and at the show itself. PDi will be on site at its own stand which is shared with PDa Magazine. You will find us at stand 136 in hall A1.

In the magazine you will find a list of selected exhibitors related to the product sectors that PDi covers. It can be a good idea to be a little prepared when visiting the show instead of wandering around the 614,000m² fair grounds which consists of 18 halls and three large outdoor areas. The pedometers will be running hot that week!

Concrete cutting equipment such as drilling systems, wall saws, wire saws, power cutters, diamond tools, light demolition equipment and demolition robots, machines for grinding and polishing concrete floors, air cleaners and vacuum cleaners, etc. can be found in hall A1. As usual, demonstrations will take place just outside the hall A1. Compressors, pumps, generators and more, can be found in hall A4, whilst engines and components in A4. Different types of lifts, scaffolding and construction lifts are exhibited mainly in the outdoor area, North. Large and small construc-



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tion machinery, recycling equipment, demolition and recycling tools can be found in halls C5 and C6 as well as the outdoor areas North and South.

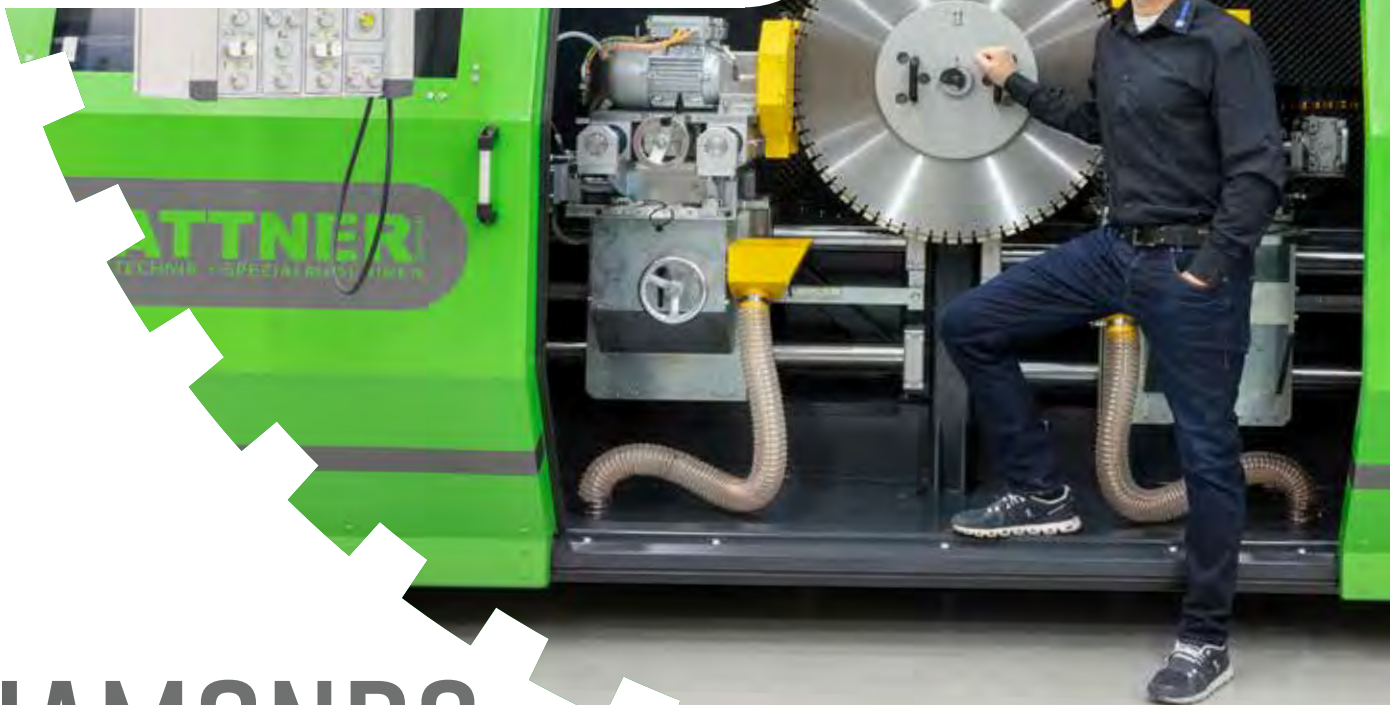
Doubtful if bauma will beat 2019 numbers

When the show was organised in 2019, 3,700 companies

exhibited from 68 different countries and the fair was visited by 620,000 people from 200 countries. This was an increase in visitor numbers by around 40,000 people compared to 2016. More than 250,000 visitors came from countries outside Germany, making bauma a truly international fair.

Ahead of this year's fair, the outlook looks good and the fair is fully booked. As a guess, however, is that bauma may not get as many exhibitors as in 2019, but around 3,500 companies are set to exhibit. A number of companies that PDi has known for a long time have chosen to withdraw from bauma in favour of other





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marketing efforts. A small trend can be discerned that there is a certain resistance to these giant fairs these days. It is thought that it is impossible to calculate the costs of the fair, which for many of the large exhibitors become gigantic if you include the stand area, the cost of building advanced stands, catering during the fair, travel and accommodation costs for those who work on construction and in the booth during the fair and more. Many believe that small niche trade fairs that are more geographically limited in focus provide significantly more and that you can then take care of customers in a better way.

We also do not know for sure what the spread of infection will look like in the autumn. The virus has a

tendency to spread more during the colder part of the year, and there is naturally the risk of new mutations. However, we can probably be fairly certain that the fair will not run the risk of being cancelled.

IACDS annual meeting and networking event

This year, the International Association of Concrete Drillers and Sawers, IACDS, will again arrange the IACDS Annual Meeting. It will be held on 27 October within the framework of the bauma international trade fair in Munich. IACDS has booked a space at hall B1, room B11, to meet face to face with members and colleagues of the association, talk and participate in the

networking activity. The event is free and open to all professionals, direct members of IACDS, members of the national associations and other organisations.

What's more, the Diamond Award 2022 ceremony will take place immediately after in the same room. This competition is held every three years, and is organised to recognise the expertise of contractors and the innovation of manufacturers, with numerous job and product applications being presented.

Afterwards, an informal dinner will take place at a typical Bavarian restaurant in the city centre. To attend the event, sign up using a form available on the website of IACDS.

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AGP EUROPE BV	EWE.06	DYNASET Oy Powered by Hydraulics	B5.416	Kinshofer GmbH	C5.149
AIRTEC AG	A1.521	E-Z Drill, Inc.	C4.746	Kinshofer GmbH	FM.711/4
AJCE Europe	B5.513	EHWA DIAMOND IND. CO., LTD.	A1.223	Kleemann GmbH	FS.1110
Alfred Kärcher SE & Co. KG	A1.103	Elektrowerkzeuge GmbH Eibenstock	12A.A12.36	"Klingspor Schleifsysteme GmbH & Co. KG"	A1.541
ALL-KOR Co	C5.514	Elektrowerkzeuge GmbH Eibenstock	A1.537	"Kobelco Construction Machinery Europe B.V."	FN.1016
ALLU Finland OY	FN.1021/2	EmiControls	C5.336	KOMATSU EUROPE INTERNATIONAL N.V.	56C.C56.9
ANAC MAKINA CO LTD.	A6.519	engcon Germany GmbH	FM.708/3	KOMATSU EUROPE INTERNATIONAL N.V.	56C.C56.13
Anbaufräsen PC GmbH	FS.1208/1	Epiroc Deutschland GmbH	FS.1208/1	KOMATSU EUROPE INTERNATIONAL N.V.	56C.C56.19
Antraquip Corporation	C5.503	EURODIMA GmbH & Co. KG	A1.402	KOMATSU EUROPE INTERNATIONAL N.V.	56C.C56.15
AquaJet Systems AB	A1.325	Euromecc S.r.l.	FS.907/5	KOMATSU EUROPE INTERNATIONAL N.V.	56C.C56.17
AquaJet Systems AB	FM.711/4	"Fachverband Betonbohren und -sägen Deutschland e.V."	A1.138	KOMATSU EUROPE INTERNATIONAL N.V.	C6.233
Atlas Weyhausen GmbH	C6.212	FAREBIN INDUSTRIES S.p.A.	FS.1208/2	KOMATSU EUROPE INTERNATIONAL N.V.	C6.223
AUSA Center, S.L.U.	FM.709/7	Fast Verdini S.R.L.	FS.905A/1	KOMATSU EUROPE INTERNATIONAL N.V.	FM.713/1
AUTEC Srl	FM.807/9	FLEX-Elektrowerkzeuge GmbH	A1.319	KOMATSU EUROPE INTERNATIONAL N.V.	FM.HOF60C.1
Avant Tecno Oy	FM.709/3	FRUTIGER Company AG	B5.224	KOMATSU EUROPE INTERNATIONAL N.V.	C6.232
BATMATIC s.r.l.	A1.105	Geith International Ltd.	C5.516	KOMATSU EUROPE INTERNATIONAL N.V.	C6.222
BLASTRAC BV	A1.137	GSSI, Geophysical Survey Systems, Inc	A1.512/1	"Komatsu Germany GmbH - Mining Division"	FM.713/1
Boart Longyear Suisse Sarl	C2.414	GIPO AG	FN.921/9	KONVERMA Abbruchgeräte	B5.227
BRAUN Rückbautechnologien GmbH	A1.215	GÖLZ GmbH	12A.A12.39	KTEG GmbH	FN.717
Breaker SRL	A1.414	GÖLZ GmbH	A1.449	KUBOTA (Deutschland) GmbH	A4.327
Briggs & Stratton Germany GmbH	A2.349	Hammelmann GmbH	A1.425	KUBOTA Baumaschinen GmbH	FN.1019/1
Brokk AB	A1.451	Hammer Srl	FM.711/4	Lehnhoff Hartstahl GmbH	FM.710/2
Brokk AB	FM.711/4	HAN MAKINA SAN.TIC.LTD.STI.	C4.231	Leotech S.r.l.	C5.127
Brokk DA GmbH	FM.711/4	"Heger GmbH Excellent Diamond Tools"	A1.438	"Liebherr-International Deutschland GmbH"	FM.714/2
CAMS SRL	FS.1211/9	Hidromec srl	A4.104	Liftroller AS	C4.547
Cangini Benne s.r.l.	C5.149	HIDROMEK A.S.	FN.919/1	LISSMAC Maschinenbau GmbH	01A.A01.43
Cangini Benne s.r.l.	FM.711/4	Hilti Deutschland AG	12A.A12.12	LISSMAC Maschinenbau GmbH	A1.249
Cangini Benne s.r.l.	45C.C45.9	Hilti Deutschland AG	12A.A12.6	MAEDA SEISAKUSHO CO., LTD.	FS.1003/1
Caterpillar SARL	A4.336	Hilti Deutschland AG	A1.313	Mantovanibenne s.r.l.	FN.917/2
"CEDIMA Diamantwerkzeug- und Maschinenbaugesellschaft mbH"	A1.349	HIMOINSA	56A.A56.9	MB Dustcontrol BV	C5.537
CEJN Product GmbH	A3.313/J	HIMOINSA	A5.149	MB S.p.A.	FN.821/5
Conjet AB	A1.509	HINOWA S.p.A.	FS.903/8	MB S.p.A.	C5.215
CONTEC GmbH	01A.A01.3	HINOWA S.p.A.	C4.325	MBI B.V.	C1.140
CONTEC GmbH	A1.212	HONDA MOTOR EUROPE LOGISTICS NV	A4.149	MBI Deutschland GmbH	FN.917/2
CONTEC s.r.l.	C1.512	HSD Europe GmbH	EWE.18	McCloskey International Ltd	FS.1211/1
CORAZZA SRL	B5.450	Huddy Diamonds s.r.o.	C1.415-11	MCS Global Ltd	A2.410
CORIMAG S.r.l.	B5.324	Husqvarna Deutschland GmbH	A1.137	MCS Mobile Control Systems SA	A2.540
Cormach S.r.l.	FN.722/10	Husqvarna Deutschland GmbH	A1.320	MECALAC	FM.714/1
Cornidi	FN.1015/7	Hycon A/S	FM.711/4	Meijer Diamond Tools BV	A1.531
Cornidi	C5.149	Hydraram Deutschland GmbH	C5.349	Messersli' S.p.A.	FN.1018/2
D & A Heavy Industries Co., Ltd.	C5.402	Hydro-Tec GmbH	A1.403	Mikasa	FS.1013/1
DAEDONG ENGINEERING Co. Ltd.	C5.303	"Hyundai Construction Equipment Europe"	FM.813A	MIKASA SANGYO Co., Ltd.	FS.1013/1
Daemo Engineering Co., Ltd.	B5.237	HYUNDAI EVERDIGM Corp.	FS.1106/2	MONTABERT SAS	C5.425
DARDA GmbH	FM.711/4	ICS Oregon Tool Europe S.A.	A1.415	MotoCut Oy	C5.542
Dehaco B.V.	FN.624/7	ICS Oregon Tool Europe S.A.	12A.A12.29	MultiOne S.r.l.	FM.714/9
"DEMAREC Demolition and Recycling Equipment BV"	FM.711/4	Idrobenne s.r.l.	C4.148	Nakayama Iron Works Ltd.	C2.425
Di-Star Ltd.	A1.500	IDROMECCANICA BERTOLINI S.P.A.	A1.539	National Flooring Equipment	EWE.09
DIAM INDUSTRIES	A1.116	IDROMECCANICA RAMTEC	C5.415	NPK Europe Mfg.s.r.o.	FN.1020/3
Diamond Tools Austria GmbH	A1.515	IMPACTS GmbH	A1.305	OilQuick AB	FN.821/1
DIECI S.r.l.	FS.1109/5	Inan Makina San. Ve Tic. A.S.	B5.412	Okada Aiyon Corporation	C5.438
Dieckmann, M., Diamantwerkzeugfertigungs GmbH	C2.401	INDECO Ind S.p.a.	FM.709/8	OSA DEMOLITION EQUIPMENT S.R.L.	C5.238
DIEWE GmbH	A1.315	Indexator Rotator Systems AB	FM.807/5	OTTO BAIER GmbH	EWE.02
DIGGA Ltd	B5.225	Italmeck Srl	C5.409	Padley & Venables Ltd.	C2.436
DIGGER - DTR	C2.503	Janser GmbH	A1.102	Putzmeister Holding GmbH	B6.300
Doosan Bobcat EMEA s.r.o.	FN.817	"John Deere Construction & Forestry Company"	FS.1111	Putzmeister Holding GmbH	B6.101
Doosan Infracore Europe, s.r.o.	FM.711/1	"Kaindl Schleiftechnik Reiling GmbH"	A1.427	Putzmeister Holding GmbH	B6.100
"Dr.Schulze GmbH Diamantwerkzeuge - Maschinen"	A1.149	KAMAT GmbH & Co.KG.	A1.334	Putzmeister Holding GmbH	FM.HOF60B.9
Dr. Fritsch Sondermaschinen GmbH	A1.522	KAMAT GmbH & Co.KG.	01A.A01.29	Putzmeister Holding GmbH	FM.HOF60B.11
		Kaskod-Mtronix OÜ	A1.533	Putzmeister Holding GmbH	FM.709
		Keestrack NV	FN.1017/1	Remu Oy	B5.408
		KEMROC Spezialmaschinen GmbH	FN.1019/5	RIVARD	FN.926/9

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Rockmore International GmbH	C2.327	SPRING S.r.l.	A2.217	VTN EUROPE SPA	B5.413
"ROCKSTER Austria International GmbH"	B2.214	STANLEY Infrastructure	C5.448	Wacker Neuson SE	FN.915
"ROCKSTER Austria International GmbH"	12B.B12.37	Steelwrist AB	FN.917/6	WAKRA Maschinen GmbH	A1.301
"ROCKSTER Austria International GmbH"	12B.B12.35	"Stihl Vertriebszentrale AG & Co. KG"	12A.A12.22	WIDECUT CO., LTD.	A1.126
ROSSI GmbH	A3.308	"Stihl Vertriebszentrale AG & Co. KG"	A1.327	Wimmer Hartstahl GmbH & Co KG	A6.113
Rossi S.p.A.	A3.308	Superabrasive EOOD	A1.213	Wimmer Hartstahl GmbH & Co KG	56A.A56.11
Rotar International B.V.	C5.337	"Surface Systems & Instruments, Inc."	A2.622	WLP SYSTEMS SRL	C5.410
Rotobec	B5.229	Tehma SA	A1.128	Xcalibre Equipment Ltd	C1.136
Rototilt GmbH	FN.914/9	TREVI BENNE S.p.A.	C5.424	Yamamoto Rock Splitter Limited	B5.505
RUBBLE MASTER HMH GmbH	B2.236	Trelawny SPT Ltd	A1.130	"Yanmar Construction Equipment Europe"	FN.1017/2
RUBBLE MASTER HMH GmbH	12B.B12.11	"Tyrolit Construction Products GmbH"	01A.A01.33	Yanmar Europe B.V.	A4.425
Saint-Gobain Abrasives GmbH	12A.A12.38	"Tyrolit Construction Products GmbH"	01A.A01.37	Zeppelin Baumaschinen GmbH	FM.60B.3
Saint-Gobain Abrasives GmbH	A1.437	"Tyrolit Construction Products GmbH"	A1.139	Zeppelin Baumaschinen GmbH	B6.106
SAMEP TOOLS SAS	B5.312	URACA GmbH & Co.KG	A1.248	"Zoomlion Heavy Industry Science & Technology Co. Ltd."	FS.905/2
SARL Tecman	B2.148	V. Broendum A/S	A1.114		
SBL Maschinenbau GmbH	B5.315				
SBM Mineral Processing GmbH	B2.249				
Scanmaskin Sweden AB	A1.338				
Schwaborn Gerätebau GmbH	A1.314				
Schwaborn Gerätebau GmbH	12A.A12.13				
PDi Magazine, Pda Magazine	A1.136				
SENNEBOGEN Maschinenfabrik GmbH	FM.712				
Sensor-Technik Wiedemann GmbH	A2.225				
Sensors & Software, Inc.	A2.613				
SHEARCORE	C5.529				
Sherpa Miniloader BV	B5.549				
Sherpa Miniloader BV	FM.711/4				
SIMA, S.A.	A1.125				
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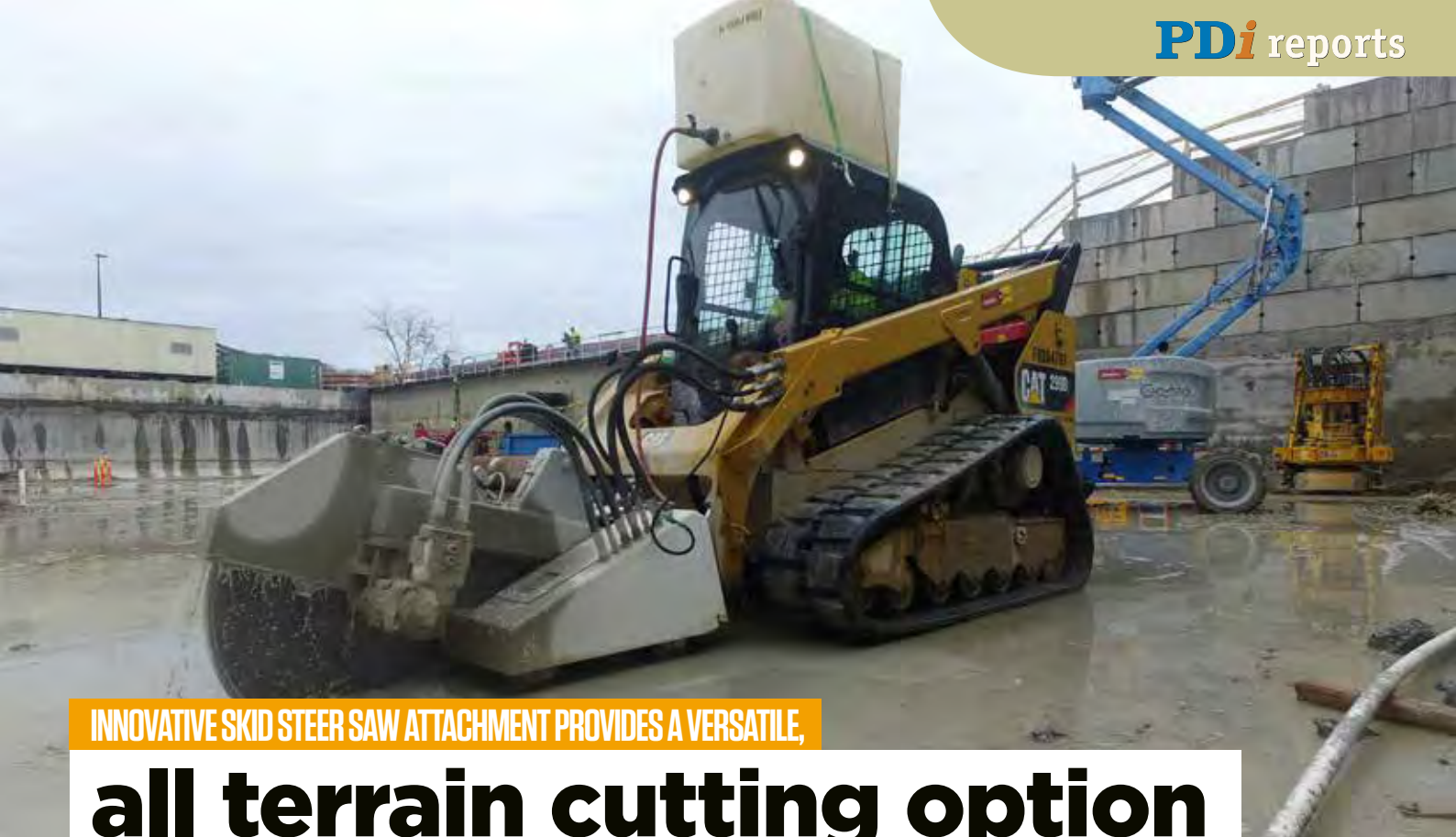


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INNOVATIVE SKID STEER SAW ATTACHMENT PROVIDES A VERSATILE,

all terrain cutting option

The question often arises, “there has to be a better way?” Matt Hephner asked that question, and what’s more, he decided to do something about it, resulting in an innovative concrete saw attachment especially designed for use with skid steers.

Hephner, a concrete cutter for more than 35 years, co owns the Knoxville, Tennessee, sawing and drilling company, Cuts, Inc., with his son, Matthew. Several years ago, he was preparing for a large job requiring multiple cuts through 380mm thick sloped concrete slabs in a short amount of time. Though the challenge was certainly enticing, the requirements to tackle it - five crews with wall saws - didn’t add up. A search for attachment alternatives also came up empty.

Rather than simply pass on the job, the Hephners put their heads together and fashioned a prototype hydraulically powered diamond saw attachment that could be used with a skidsteer. “The idea was to have the mobility to move quickly from one cut to the next eliminating the set up time associated with wall sawing equipment, but also be efficient and simple to operate,” Matt Hephner explains. The Hephners put their saw to work and got the speed, cost, and quality results they and the customer were looking for.

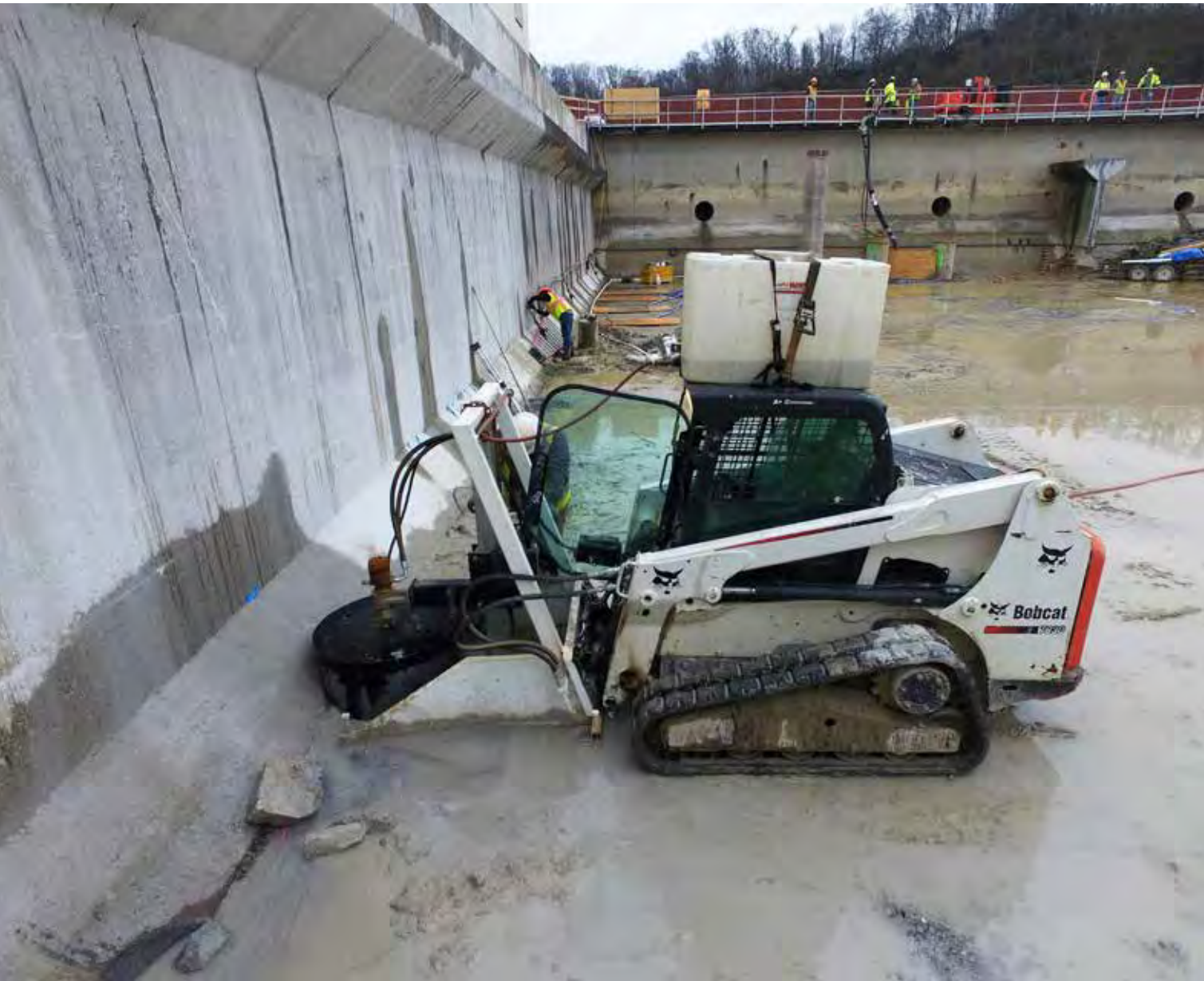
Realising the attachment’s potential applications, they used experiences of subsequent jobs to refine the design, such as incorporating an anti-cavitation feature to protect the hydraulic motor, adjustable flow and pressure to adjust the blade’s downward speed and force. “We

also added hydraulic pressure valving to protect motor in case of blade jams,” Hephner adds. “All these items together allowed us to receive the first patent for this type tool.” Before long, the Hephners found themselves fielding calls from other contractors asking if they too could get one of these remarkable attachments. And a new business, Skid Steer Saw, was born.

Available in three models (SS2600, SS3600, and SS4200) Skid Steer’s saws can accommodate all sizes

of diamond blades to make cuts up to 457mm deep, while custom builds can go as deep as 508mm. Most customers use the attachment for cutting asphalt and concrete roads and highways, but Hephner reports that the range of applications has grown to include cutting stone, concrete panels, sewer and drainage pipes, fibreglass panels, and aluminium. And because the saw attachment is operated by a skid steer, it can be used virtually anywhere.





The fame of Cuts, Inc. and its skid steer saws has extended far beyond the mountains of east Tennessee. Avionics Limited, a Sydney, Australia based airfield lighting specialist, found the saw attachment particularly helpful in carrying out an upgrade to Melbourne Airport's airfield lighting system. The work involved 3,000 light fitting locations and nearly 35,000m of slot cutting, ranging in size from 15mm x 30 mm to 35mm x 30mm. After finding only three suitable sawing options, Avionics chose Cuts, Inc.

"The company has developed the saw with a contracting background," explains Avionics construction manager Shane Webb. "Matt and his team understand the complexities of saw cutting and have been able to incorporate this understanding into their design. The initial video of their road saw demonstrated an easy to operate, safe and versatile attachment that had four wheels in contact with the ground. The attachment has exceeded our expectations and our dealings with Matt and the team at Cuts Inc has been both professional and friendly."

Recently, the Hephners were able to demonstrate the skid steer saw's ruggedness in a U.S. Air Force demonstration project aimed at finding ways to expedite



repairs to damaged airfields anywhere in the world. Conducted at Tyndall Air Force Base in Florida, a 500kg SS4200 matched with a Caterpillar 2890D was pitted against several other sawing tools to cut through the test area's 457mm thick, 620bar concrete slabs. "The machines were evaluated based on weight, size, and speed," Hephner explains. "Though we were slightly faster than the other models, our low weight and compact size really set us apart."

Cuts, Inc. has also developed a sawing attachment for excavator arms that can be used with up to 1,219mm diameter blades. Skid steer compatible attachments for coring applications on land and underwater are also being developed as well. "We're contractors ourselves, so we know there'll always be jobs with different challenges," Hephner says. "But it's also important to be as efficient and profitable, which is why we want to make attachments that not only provide useful additions to our customers' tool arsenal, but also give them a lot of versatility and value as well."

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BROKK INTRODUCES THE 'BROKK SURFACE GRINDER 530'

Brokk, the leading manufacturer of remote controlled demolition robots, has announced the addition of the Brokk Surface Grinder 530 (BSG 530) attachment. This has been designed for material removal, such as paint and asbestos, surface preparation and polishing on walls, as well as floors and ceilings in renovation and restoration applications.

Compatible with the Brokk 170, Brokk 200 and Brokk 300, the BSG 530 allows contractors to tackle a range of previously labour intensive projects, being said by the company to be up to 10 times faster. Pairing the surface grinder attachment with Brokk's remote controlled operation is also said to provide greater worker safety levels when compared to manual methods.

Brokk will showcase the BSG 530 at bauma, in Munich, Germany, at its outdoor stand, FM711/4. The company will also feature its full line of electric demolition robots, from the Brokk 70 to the Brokk 900, and the 'Atomized Water Mist' dust suppression system. Brokk's indoor stand, A1.451, will include the Brokk 70, the new Brokk 'Grapple Saw' paired with the Brokk 110, and the Atomized Water Mist paired with the Brokk 170. "The Brokk Surface Grinder addresses a gap in the surface grinding market where there is a long history of using handheld tools for ceilings and walls," said Martin Krupicka, CEO of Brokk Group. "The Brokk Surface Grinder offers a faster, safer option than manual methods, especially when dealing with hazardous material. We see huge potential for concrete renovation in buildings from the 1970s when asbestos was often used for insulation and fire resistance."

The BSG 530 is fully remote controlled through the Brokk control box, offering an automated method of stripping plaster, contaminated material, tile adhesive and paint from walls, ceilings and floors. The pairing efficiently removes material through constant contact and high pressure on the surface, resulting in a more even, consistent removal over large areas that is not possible with handheld grinding tools. The attachment can reach 2,300Newtons of grinding pressure for wall

applications and 1,100Newtons of grinding pressure for ceiling applications. The BSG 530 also has a feature that continually adjusts the grinding pressure to keep it constant.

Along with substantial efficiency and quality gains, a Brokk robot and the surface grinder attachment offer greater operator safety and comfort than handheld tools. Thanks to the remote control, operators can position themselves a safe distance from the removal site, reducing the risk from falling debris and missteps on scaffolding or ladders. They can also distance themselves from dust, especially beneficial in decontamination applications. In addition, remote operation eliminates worker strain from the constant vibration of handheld tools. Reducing wear and tear on workers' bodies

helps prevent long and short term injuries that affect productivity. To further ensure safety when contractors remove hazardous material, Brokk also offers an optional dust extraction system with the attachment to capture harmful particles.

With the addition of the optional tools, the BSG 530 also can be used for surface preparation, creating a texture ideal for bonding new material. Brokk also offers optional tools for polishing concrete and natural stone on walls, ceilings and floors. The BSG 530 has an operating weight of 230kg with a length of 140cm, a width of 64cm and a height of 65cm. The attachment is available in Europe, Asia, Africa, Oceania and Latin America. It is one of the many efficiency enhancing attachments available from Brokk.





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YANMAR INTRODUCES CARBON NEUTRAL ELECTRIFICATION STRATEGY AT BAUMA 2022

Yanmar, a world leading provider of power solutions and industrial machinery, will introduce its electrification strategy for off road vehicles and equipment at bauma 2022, Germany, the world's biggest construction equipment exhibition.

Yanmar (stand A4.425) will showcase its off road product portfolio, commitment to customer life-cycle value and future vision for industrial equipment at bauma 2022. Amongst the highlights will be the company's electrification strategy for e-powertrains, an electric equipment demonstrator, the Yanmar/Eleo modular, high density battery system and the extended five year warranty for TN Series engines.

All in-one systems integrator

Yanmar will aim to establish itself as the all in one systems integrator for smart electrified power solutions tailored to the application specific needs of individual OEMs. In its capacity as a systems integrator, Yanmar implements system engineering, design and manufacturing of e-powertrains, while also providing control development, system evaluation, procurement, manufacturing and quality assurance. As Yanmar transitions to an advanced supplier of electrified solutions, the company remains true to its core values of durability, reliability, quality and robustness, together with the commitment to be a reliable and trusted partner for customers - values the company has lived by for more than 110 years.

Mr. Tomohisa Tao, president Yanmar Power Technology Co. Ltd stated: "As Yanmar looks to meet the challenges of the coming century, our transformation will encompass new products with alternative fuel technologies. Our aim, together with our dealers and OEM

partners, in this strategy is to build stronger relationships and create even greater customer value with new energy technology. We will work hard to support our OEM partners and customers to achieve their environmental and performance goals."

Electric demonstrator

At bauma 2022, Yanmar will show an electrified demonstration vehicle that shows the practical application of the company's system integrator technologies. Powered by an efficient electric drive and hardworking 48v batteries with fast charging capability, the electric excavator is a quiet, zero emission machine designed to meet the most demanding emissions restrictions. The machine is an example of Yanmar's system integrator applications technology, integrating power and control systems with advanced applications management in a versatile and easy to use machine.

Modular battery systems acquisition

An important milestone for realising the urgent environmental challenges that we must overcome is Yanmar's acquisition of battery technology company Eleo, a fast growing developer and manufacturer of high performance modular battery systems. This acquisition will further Yanmar's electrified powertrain capabilities with versatile, customised solutions for off road applications. Eleo is building a new battery production plant, increasing its annual battery production capacity

tenfold to 500MWh – equivalent of approximately 10,000 battery packs.

Five year warranty benchmark underpins sustainability objectives

The launch of the new five year warranty (or 5,000h) further enhances sustainability and extended ownership of the current line-up of clean diesel solutions during the transformation to carbon neutral power solutions. This extended warranty is free of charge and valid for TN Series engines sold in Europe and operating on European territory. Carlo Giudici, director Industrial EMEA at Yanmar Europe, says: "Yanmar sets a new benchmark by being the first to offer a complimentary five year warranty for off road vehicles. It emphasises the strong quality and reliability of our engines and is another important step to offering customers problem free, sustainable ownership and higher resale value."

From the development of new energy sources for customers and industry, to working towards a sustainable future and zero emissions from its headquarters and facilities, Yanmar is undertaking a range of activities in pursuit of a sustainable society. The company has already embarked on several new energy projects in various business lines, including hydrogen powered cogeneration, research into hydrogen fuel marine engines, bio gas cogeneration, dual fuel power solutions with natural gas, fuel cell marine technology, smart agriculture, and resource recycling technologies.



THE WIRTGEN GROUP AT BAUMA

In Munich, the Wirtgen Group is presenting sustainable and pioneering solutions for the road construction industry.

The industry's second largest exhibitor at the show is once again appearing at the event together with John Deere under the shared motto of: 'The future in roadbuilding – Smart. Safe. Sustainable.'

Focus on sustainable road construction

The Wirtgen Group supports and assists its customers in the rapid and cost efficient realisation of the world's continuously growing demands for infrastructure and the fulfilment of increasingly stringent tendering criteria relating to environmental protection and the safety of humanity and nature. These include solutions not only for individual machines and their engine and drive train technologies, but also for complete production systems in the road construction sector.

Separate exhibition area for smart production systems

The Wirtgen Group provides solutions for the entire road construction process chain and the group is presenting a cross section of them in a dedicated special exhibition area at its booth. Here, visitors from all areas of the industry, can gain insights into how customers can sustainably and cost effectively realise their road construction projects through the efficient interplay of construction equipment and technical solutions from the specialist product brands Wirtgen, Vögele, Hamm, Kleemann and Benninghoven.

John Deere is coming to the event with a representative selection of construction equipment and corresponding technologies that are tailored to the needs of the European market and ideally complement the Wirtgen Group's portfolio.

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MESSERSÌ AT BAUMA 2022

Messersì is a leader in the production of tracked dumpers and tracked carriers, as well as in manufacturing other types of compact construction site machines (mini excavators, skid steer loaders, compact tracks loaders etc.).

Messersì tracked dumpers have features for enhanced performance, reliability and operator safety. Since 2013, Messersì has faced the challenge of providing electric power with two different size models of battery powered tracked dumpers of the 'Zero Emission' line. This will be presented at bauma 2022 along with the latest tracked dumper, the TC550d along with the updated CTL45 compact loaders line with Stage V engine.

Zero Emission line

TC120e Zero Emission has a capacity of 1,200kg and fully electric transmission with two heavy duty electric motors making it ideal for working in the most demanding conditions. The hydraulic service circuit for operating the bucket is equipped with a gear pump which uses an electric power supply controlled by a dedicated electric motor. The tracked undercarriage is fully electrically operated with two 2kW electric motors (one per track) powered by the battery. The layout of the track is patented and has tilting rollers in the central area of the track to ensure a large support area, high stability and excellent driving comfort in all conditions of use. To ensure maximum operator safety, the TC120e is equipped with an emergency button and electro brakes. Thanks to the electric power supply system, the TC120e has very low operating and maintenance costs.

TC50e Zero Emission is the smallest tracked hauler in the range and has a 500kg payload. A width of only 660mm allows the model to enter standard sized doorways and to access and steer without difficulty even in constricted spaces. It uses a mixed electric / hydraulic transmission driven by a 5.5kW electric motor powered by a 28 cell battery enabling it work for five to six hours. As with the TC120e, the battery is equipped with a battery management system which oversees the control of the condition of the battery cells. The hydraulic system is equipped with three gear pumps that are powered by the electric motor which commands driving and the loading / unloading systems of the bucket as well as the auxiliary systems connected to it. The recharging time of

the battery performed with standard charger (integrated in the machine) is approximately seven hours.


Petrol and diesel power

The new TC120 petrol model is an evolution of the diesel model TC120d: the chassis is equipped with the patented layout of the tracks, with tilting rollers in the central area of the track to ensure a large support area, providing high stability and excellent driving comfort in all conditions of use. In the last three years the TC350d (diesel) model has been updated and has a 3,500kg payload. It is equipped with the 180° swivel skip. Control is through joysticks on the armrests of the driver's seat, which rotates 180°. Powered by a Kubota common rail engine (48.6kW at 2,700rpm) it meets Stage V regulations with an electronic particulate filter. The model is available with a closed cab and 450mm tracks.

A new diesel powered 'heavy' dumper is the TC550d. It is the largest model ever manufactured by Messersì and has a 5,000kg payload capability. It is equipped with the 180° swivel skip with 2.9m³ volume capacity and 600mm large tracks in order to reduce the specific ground pressure. As found with the TC350d, control is through joysticks placed on the armrests of the driver's seat. This model has Perkins common rail engine (85.9kW at 2,400rpm) Stage V with AdBlue. Two speeds up to 12km/h are possible whilst the model is equipped standard with closed cab, air conditioning and rear view camera.

Zero Emission mini excavator and new loader

The M18e electric mini excavator is based on the traditional M18DS with diesel engine. Its lithium ion batteries enable the machine to work continuously for a complete day shift, with battery recharging during night hours. The machine weighs in at almost 2,000kg. Finally at bauma, Messersì will unveil the CTL45 which is a compact Stage V tracked loader which is 1,350mm wide and weighs 2,700kg. Power is supplied by a 33kW Kubota common rail turbo diesel Stage V engine with electronic particulate filter. The 'Power Take Off' can supply 56l/min at 190bar.



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NEW DOOSAN DX380LC-7 EXCAVATOR

The Mediterranean Institute of Ecological Studies (IMEE), a company based in Quart de Poblet in Valencia in Spain, has expanded its machinery fleet with a new Doosan DX380LC-7 crawler excavator.

Authorised by the local community organisation, Generalitat Valenciana, IMEE provides a construction waste treatment service in the local region, covering a market area of 200,000m² collaborating with public, local and regional administrations in the district.

The facilities at IMEE include a recycling plant, a treatment plant, a transfer centre and an inert waste dump. The material from construction works first comes into the delivery area, from where it goes to the separation warehouse where large recyclables such as plastics, cardboard, iron and wood are removed. The remaining inert waste is then passed through to the triage cabin, from where soil and aggregates are passed on to a conveyor belt, which directs it to a mill where it is converted into recycled materials for use in the construction of buildings and roads.

Nacho Llácer, managing director of IMEE, said: "We are growing between 20%-30% every year, so we needed a new excavator to work in our facilities and Doosan proved to be the best for the size of excavator to meet our needs, with lower fuel consumption and a quality design. We need to load, unload, excavate and transport stockpiles to the crusher to recycle, collect the waste that arrives at our facilities (with an average of 140 trucks/day and about 2,000t/day) and carry out various jobs on the plant. "Our operators are very happy

with the new excavator - they appreciate the ease of operation and the additional comfort that comes from a new machine. The visibility, the cab and the safety are outstanding elements, as well as the robustness."

Ideal for sorting materials

IMEE also has a Doosan DX170W-5 wheeled excavator. This model features the well regarded DL06P engine, said to be one of the most reliable six cylinder engines designed by Doosan, with EGR and SCR emission treatment technologies without DPF, a spacious cab and a fully automatic climate control system. Nacho Llácer continued: "The DX170W-5 is ideal for its size and power. We equip it with a clamp to sort and separate various materials into groups. In addition to handling work in the waste area, the Doosan DX170W-5 excavator literally rips the plastic out of the big bags, separating the content from the container, which allows us to quickly and conveniently divide and select materials and soil or rubble. It also transports and stacks the containers we use.

"The different types of components used in construction generate waste that must be classified for later recovery, identifying what can be recovered for reuse. Thanks to the sorting process, we manage to recover 95% of the waste products for subsequent recycling. The lack of adequate centres like ours for construction

waste creates a serious problem for our environment and is currently a huge setback.

"The qualities of machines today are intrinsic, such as new technologies, rear view cameras and ergonomic seats, however, I personally highly value the role of a good salesperson who not only sells a machine, but also advises you and helps you with decision making when selecting the best products for your projects, including post sales, which is also extremely important. There are sellers who are simple order takers, who leave a catalogue on the table, but are not even experts in their product. Selling is not offering; selling is talking, listening to the needs and offering solutions to the client. A person who only distributes flyers will hardly know how to solve a problem when you have it. Therefore, it is vital for me that the manufacturers train their teams properly and prioritise the training centres.

"Undoubtedly, the staff at Ximo Magallo & CIA., the official Doosan distributor in our area, with the support of Centocar, meet these requirements. Their team is really efficient in this sense, and they also offer a very good technical service and are fast. They solve all my problems, which strengthens my confidence in them." Ximo Magallo & CIA. has more than 45 years of experience in public works, with highly qualified and professional personnel who are well established in Valencia.

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RM GROUP LAUNCHES INNOVATIONS AT BAUMA

Rubble Master has been powering its mobile processing plants with electricity for decades. Using this expertise, RM has continuously sets standards in the energy efficiency and cost effectiveness of its machines.

That is why with the tagline 'Meet the future', RM will be exhibiting this technology at this year's bauma. The company will be located at stands B2.236 and 12B.B12.11 whilst its sales partners, C. Christopel GmbH and Jürgen Kölsch GmbH, can be found at stand FN.1024/1.

RM states that through the revolutionary new development of the RM H50X hybrid screen, customers are saving even more in fuel costs. In addition, the 'RM XSmart' software solution and other new digital innovations demonstrate how operators and machines can network intelligently to get even higher output. As a result, mobile RM crushers and screens can be combined in a versatile, flexible and efficient way. But this is only the start, as in order to be able to offer matched crushing and screening trains, RM customers can look forward to another product innovation.

Electrification benefits customers and the environment

Even before steadily rising fuel prices, the electrification of RM machines was a key economic as well as ecological argument. As part of the 'RM Next' philosophy, the RM Group is consistently supporting electrification and offers all of its crushers and screens as hybrid versions as a matter of principle. These machines can also be operated fully electrically. A special focus has been made in combining machines to form crushing and screening trains so they can be operated together. This means, for example, that the crusher can also power the screen. This enables customers to save time and money as they only need to refuel and service one engine.

RM hybrid machines are said to use up to 25% less fuel than diesel direct systems. If a crusher equipped with a hybrid drive system also powers an electric screen - a

standard set up with RM - even greater savings can be achieved. With this technology, the savings are much higher than with conventional diesel hydraulic systems. Another advantage, in addition to lower operating costs, is that the machines can be used in emissions sensitive areas. At bauma, RM will demonstrate the many capabilities offered by using its electric powered crushers and screens.

The best solution for every application

RM has made compact crushers for more than 30 years, moving on site recycling of C&D waste away from the niche and developing it into a profitable business model worldwide. Decades of expertise in crushing and electrification were later joined by screening equipment. RM Next mobile processing machines are said by the company to have raised the bar to a completely new level of efficiency in recent years. In the meantime, RM offers highly efficient, custom built and integrated solutions ranging from stand-alone machines to complex trains consisting of crushers, screens and stockpiles. This enables the customer to successfully build up its business in the recycling and natural stone processing sectors and to grow with RM. In addition to the many ways in which RM products can be deployed and combined, the RM Group will be displaying two completely new developments at bauma that represent a key expansion to the product range.

Two revolutionary new product developments

In addition to ease of operation, RM Next focuses on even greater efficiency and electrification, enhanced safety for operators, even easier operation, modularisation and the provision of even higher levels of service provided through digitalisation. Now, two more prod-

ucts have been developed from the ground up according to the RM Next philosophy, significantly expanding the product range: the new RM H50X scalper, which will be exhibited at bauma, and the RM J110X jaw crusher. An incredible number of ideas and customer specifications have gone into both products, elevating processing machines to a completely new level. It goes without saying that both machines have been developed with hybrid drive systems from the outset and equipped with the latest digital solutions to offer operators even greater energy efficiency, productivity and reliability. Over the next few weeks leading up to bauma, more details on the new products will be revealed step by step through RM social media channels.

Digital solutions and networked machines increase efficiency

In addition to electrification, RM focuses intensively on digitalisation to give customers a full overview of their machines while operating even more efficiently. Using the RMXSmart app, machine operators can network with their machines either using an app on their mobile devices, or by using the browser app. Fleet management, condition monitoring, end to end reporting and troubleshooting support make everyday life much easier and, at the same time, increase productivity. Rubble Master, however, says it has gone one step further by networking the machines with each other. In a networked crushing and screening train, the machines can communicate with each other so that they can adjust their output to the utilisation of the upstream and downstream units, or react to an event such as one of the machines in the train switching off. This means that machines are not overloaded, nor do they run idle. That is why autonomous crushing and screening is the next logical step the RM Group will be presenting in the near future.





ATTACHMENTS THAT LAST

High performance and durability are the two pivotal characteristics of any excavator attachment. The ability to operate efficiently in the harshest environments without maintenance or repair results in low cost of ownership – a benefit that can never be overrated, especially in a wartime economy. PDi's Andrei Bushmarin presents a roundup of the most recent innovations in the demolition attachment industry.

Epiroc's VC 2000 drum cutter sets a new standard in trenching

Offering up to 40% saving in energy, the latest VC 2000 drum cutter from Epiroc sets a new standard in trenching and quarrying. "The efficiency issue connected with trenching was previously resolved with sophisticated but expensive solutions. We are pleased to present an alternative that will save time and money in virtually every aspect: from investment to energy to wear on the carrier. And it is all achieved by the angles of the drum," says Gordon Hambach, Epiroc's global business manager for Hydraulic Attachment Tools. Thanks to the V-shaped design enabling a cut with a flat base, no material is left untouched between the drums. Where a regular drum cutter must move from side to side to create an even trench – a method that causes extra wear on the carrier arm – the VC 2000 can reach the same result by just going straight. Basically, the cutter operates like a bucket, which makes it easier to use, friendlier for the carrier and a lot less energy and time consuming. The reduced



downtime and maintenance makes the attachment an even more attractive proposition. The VC 2000 shares all the trademark features of the classic Epiroc drum cutters such as the robust spur gears, adaptable high torque gear motor and the 'QuickSnap' retaining system for fast and easy pick changing. It also comes with the 'Pro bracket' leading all hydraulic hoses through the centre of the extension arm out of harm's way as standard. Mechanical and hydraulic rotatable brackets are also available for this model as well as a water spraying system. 'Hatcon', a monitoring system that keeps track of operating hours, location and service intervals is another add on that increases overall effectiveness.

www.epiroc.com

Kemroc drum cutter excels on a pit shoring job

In the town of Leonberg, near Stuttgart, Germany, a prominent Swabian manufacturer of electrical appliances is replacing its out dated manufacturing facility with a modern building. Having demolished the above-ground structure, the contractor Berb from Börsingen, took on the task of removing the basement including the concrete foundations. That part resulted in creating a 6,000m² excavated pit with walls that needed to be reinforced. Thanks to a KRD 120 drum cutter with a KRM 60 rotation unit from the German manufacturer Kemroc mounted on a crawler excavator, the retaining walls consisting of girders with timber lagging were installed quickly and efficiently.

Berb - Bantle Entsorgung und Rückbau (Bantle Disposal and Demolition) was founded by graduate engineer Georg Bantle in 2017. With qualified personnel

and its own machinery fleet, Berb had already completed a number of major demolition and earthwork projects across southwest Germany. Kemroc attachments have been part of its arsenal for some time now: for example, a patented chain cutter was used for gypsum mining at a deposit owned by the Bantle brothers. Berb also owns a 6t wheel cutter from the German manufacturer. Demolition of the structures in Leonberg was done in a traditional manner by using an excavator, a hydraulic hammer and a crusher. However, to shore and brace the excavation pit for subsequent construction works, a previously untested approach was taken. A 26t excavator equipped with a Kemroc KRD 120 drum cutter was used to install a girder and plank shoring system. Installation of this system (known locally as 'Berlin shoring') requires double T steel girders to be rammed into the ground at regular intervals, with wooden planks used to fill the space between the girders. To create space for the shoring, the soil is usually removed with a bucket. However, if the bucket removes a large boulder, voids left behind the shoring need to be backfilled. To avoid this operation, it was decided to try a rotary drum cutter.

The KRD rotary drum cutters are a relatively new addition to the Kemroc range. There are nine sizes available for 0.5t to 50t excavators. Featuring a twin head milling drum and direct drive, they boast a high power to weight ratio, which makes them ideal for demolition, concrete renovation and soil stabilisation tasks. At the Leonberg site, a KRD 120 cutter was used together with a KRM 60 rotation unit. Rotation units available for 2t to 70t excavators enable accurate positioning of the drum cutter at any angle to the material being milled. Working at Leonberg from February to May 2022,

the drum cutter removed soil and rocks from the steel girders from the bottom to the top, producing straight vertical walls.

"Thanks to this solution, our operator managed to remove the correct amount of material quickly and accurately from different levels," reported site manager Florian Eisele upon the project completion. "We also produced a very small amount of excavated material, keeping removal and landfill costs within tolerable limits. In any case, in this type of application, success is not determined by the production rate of the attachment, but rather by its accuracy." According to Florian Eisele, using Kemroc attachments in combination with a fully hydraulic quick coupler and a standard bucket had additional benefits: "The operator could quickly and easily alternate between milling and loading of the excavated material, so the excavator was utilised in the best way possible. This saved us from having onsite an additional 8t excavator."

www.kemroc.de

Mantovanibenne spawns the third generation 'Eagles'

20 specialists, 3,000h of research and development and over 10,000h of testing is what it took to produce the third generation of Mantovanibenne's now legendary scrap shear. During the testing phase, the new shear was tried in every application, from primary breaking of massive steel structures to secondary demolition of heavy vehicles. The attachment is designed to maximise service time without excessive maintenance. The shear's central pin, which is made up of robust components to increase durability, can be easily removed directly onsite.



Other features include a shorter frame, greater stability and up to 9% larger jaw opening. The jaws are cut with high pressure water jets to avoid possible weakening due to high temperatures, with the upper jaw made from a single piece without any welding to ensure stability. A redesigned interchangeable piercing tip offers greater protection and reliability. The cylinder is inverted to protect the rod inside; the enlarged bore provides more power by accelerating the opening and closing cycle. Premium quality seals can last up to 3,000h. The heavily used parts are armoured with interchangeable Hardox 500 steel plates. Currently the Eagle 3 range counts five models, with another two slated for release shortly.

www.mantovanibenno.com

Simex crusher bucket matches the performance of a mobile rotor crusher

A team from Italy based manufacturer Simex paid a visit to a waste recycling centre near Bologna operated by Trascavi Srl. to observe its CBE 40 crusher bucket processing one of the most challenging materials - reinforced concrete. In this particular case, it was actually a mixture of various concrete structures - industrial

floors, piles and pylons - with a large amount of rebar. Reinforced concrete tends to slow down processing times and often causes damage to crushing plants, leading to long downtimes as Trascavi's owner Sergio Martini pointed out: "Precisely because of the rebar, our crushing plant is out of order, waiting to be repaired. The rotor system of the CBE crusher bucket, on the other hand, reduces the risk of blocking by any type of demolished material, including reinforced concrete." Thanks to the innovative rotor system, the CBE models are equally capable of processing iron, soil (even damp or wet), wood and deformable materials. Designed for 24t to 40t excavators, the CBE 40 boasts a cutting force of 152kN generated by high displacement direct drive radial piston motors. With a capacity of 1m³, the bucket stands out for its robust construction and the reliability of all parts subject to wear.

At Trascavi, the CBE 40, mounted on a New Holland E245B excavator, processed predominantly reinforced concrete with a large concentration of iron rods in it. Rebar tends to cause jamming but, thanks to an automatic drum inversion system, the CBE 40 did not have any difficulties in volumetric reduction of

the aggregates. The output size of the crushed material was 0-70mm matching the grain size of the material produced by the operator's crushing plant. During the second phase, the crushed concrete was separated from the iron using special hydraulic magnets, then screened to remove plastics and debris that did not match the regulatory parameters. This equals the CBE crushing bucket to a mobile rotor crusher, being capable of recovering waste directly onsite without any additional costs for transporting and disposal of the materials.

www.simex.it

Arden Equipment partners up with Kobelco on 8t crusher

At bauma, France based Arden Equipment will showcase its new CD080 crusher designed and manufactured to fit specifically the Kobelco SK1300DLC demolition excavator - the latest model in the Japanese manufacturer's high reach portfolio. The brand new AES090 hydraulic quick hitch suitable for 50t to 85t machines will be another highlight of Arden's booth. Both innovations are tailored to match the capabilities of the 9.6t SK1300DLC in its 24m high reach configuration. Weighing in at 8t, the CD080 crusher is currently the biggest model in Arden Equipment's range, fitting 80t to 100 t carriers. With an opening of 1.8m, the crusher can cut through metal and reinforced concrete quickly and efficiently and boasts one of the best depth to opening ratios in its class.

www.arden-equipment.com

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Here comes the 'Guzzilla'!

Taguchi Industrial, an excavator attachment specialist based in Japan, has added a new steel cutter to its tried and tested Guzzilla range of demolition tools. Featuring the unique patented design with a pinching beak, the freshly developed DXGG-202 follows in the footsteps of the industry recognised DX cutters. This model offers a new option of picking the steel while cutting. The DXGG-202, which fits 20t to 22t excavators, boasts an impressive cutting force of 1,000kN at the tip and 1,470kN at the centre of the blade, has a maximum opening of 1,240mm, a body weight of just 2.5t thanks to thorough machining process from tailor made steel, and in house developed large diameter cylinders.

www.taguchi-industrial.com

CMB goes to bauma with all guns blazing

Italy based attachment specialist CMB will debut an array of new products at bauma. The compact CRE shear now features more powerful cylinders for faster work cycles. The new FK rotating pulveriser comes with a multi kit, which includes crusher, combi tool and shear, all interchangeable by the operator within two minutes thanks to an innovative quick coupling system. The proven CRR20 rail cutter boasts high performance and endurance in rail processing applications. Rotating pulverisers of the MD (with multi kit) and FH series along with the SM sorting grapple complete the range of demolition attachments that the Italian manufacturer is going to showcase in Munich.

www.cmbattachments.com

Sometimes you have to think small

At bauma, Promove will return with the knowledge that the real value lies in the small things, and with a focus on taking the operator's side, imagining their needs, making their work faster, more efficient, safer and more profitable. It is on this basis that Promove has chosen to present two new high performance, low weight tools for mini excavators.

The CP210 is compact but durable, with the versatility typical of CP series multiprocessors, and has been designed to make life easy for the operator on site.

Equipped with a cylinder capable of releasing up to 40t of force with an operating pressure of 200bar, it weighs just 200kg, being designed to carry out primary demolition work including the cutting of metal structures. Entirely made of Hardox, it is designed for heavy work despite its small size.

The CF45 is said to be small in size but large in yield, being the ideal equipment for those who own an excavator under 10t and want to separate or break down what has already been demolished to facilitate loading and subsequent transport or recycle reinforcing iron separating it from concrete. Also made of Hardox, the CF45, weighing 400kg, is equipped with interchangeable teeth and plate for easy, fast and economical

maintenance to be done directly on site, reducing to a minimum the downtime of the load bearing machine.

Furthermore, the design and manufacturing of Promove has produced a new line of SG-series sorting pliers, to be installed on excavators of any weight up to 20t. There are as many as eight pieces of equipment, made of Hardox, that are parts subject to wear, from the smallest of the group (SG1. 2) to the SG16. 20. These new pieces of equipment are able to handle demolished material or debris or to carry out small demolition works. Some of the strengths on which the design focused include a locking valve mounted on all sorting pliers for maximum work safety.

With a small footprint, they are designed to offer the highest levels of performance in terms of efficiency, thanks to their openings. They are equipped with reversible and interchangeable blades that allow quick maintenance to be carried out directly on site, thus minimising downtime. The SG10. 16 has continuous 360° rotation stability and efficiency is guaranteed by two motors. The double cylinder of the SG16. 20 combines the two essential qualities that a grader must have: speed and strength.

More than thirty years of experience in demolition has helped make Promove one of the leading players in the market. The company states that it always has an eye to the future, to the development of new ideas, to the search for new opportunities for improvement, whilst always being on the side of the customers.

www.promovedemolition.com

Rock.Zone to launch three new products at bauma

The Germany based manufacturer will use bauma to present three brand new products. The 'Rockscreener 800 Light' does not require a frame therefore this model is one of the lightest on the market. The new Rockwheel 'C2 Light' comes with drums for tilling tines or brushes. The Rockwheel G125 fitting up to 125t excavators, boasts a rugged construction, a twin motor power system and optimum weight distribution.

www.rock.zone





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KLEEMANN PRESENTS SOLUTIONS for the quarry and recycling at bauma

At this year's bauma, Kleemann will present innovations from its comprehensive product portfolio with a total of nine mobile crushing and screening plants and its operating concept 'Spective', including the world premiere for the new 'Mobirex MR 130(i) Pro'.

With the impact crusher Mobirex MR 130(i) Pro, Kleemann presents a new family member from the 'Pro' line. The plant is used as a primary and secondary crusher and combines output, precision and sustainability. Thanks to its all electric drive concept with the option of an external power supply and therefore CO2 free operation, the plant provides low energy consumption per ton of final product. The optional large double deck secondary screening unit permits the production of two classified final grain sizes. The MR 130(i) Pro covers a very wide application range in natural stone and recycling. With its heavy rotor and powerful electric 250kW drive, the crushing unit delivers a very high and stable throughput. A continuous crusher load is ensured by the 'Continuous Feed System' (CFS).

Spective operating concept

The innovative Spective operating concept includes various components that are ideally tuned to one another and accompany the machine operator during the entire working day. Apart from the intuitive touch panel and different radio remote controls, the digital application 'Spective Connect' supports work site digitalisation. All relevant process information and reporting are now displayed on a smartphone without having to leave the feeding device. It now comes with new features, which

will be presented at bauma and are designed to make work for the operator even easier. A new configuration tool, for example, supports the operator in the selection of the correct machine settings.

Kleemann screening line extended

The new 'Mobiscreen MSS 802(i) Evo' has been designed as a powerful mobile screen for coarse elements for challenges in different applications. With its plant design and flexible conversion options, it delivers an

optimum material flow in natural stone and recycling applications. The large range of screen surfaces and simple setting of screen parameters make it possible to adapt the screener easily to new application conditions. If a fine final product is to be screened from particularly coarse feed material, the plant can be quickly converted from three to two final grain sizes. Further advantages of the plant include its simple operability thanks to its intuitive control system, easy access to all relevant machine components and its drive concept with the option of an external power supply for emission free and therefore environmentally sound work.

'Evo2' line for flexible application possibilities

The plant comprising the Evo2 generation demonstrate that output, efficiency and flexibility belong together. The latest members of the product line – the jaw crusher 'Mobicat MC 110(i) Evo2' and the cone crusher 'Mobicone MCO 90(i) Evo2' - will be presented together at bauma with line coupling. Both have an efficient drive concept and intelligent overload systems. Operation is simple thanks to Spective and SpectiveConnect. The Evo2 line also includes the new 'Mobirex MR Evo2' mobile impact crusher designed for flexible application options in natural stone and recycling. The Spective operating concept ensures simple, intuitive control and is now available with SpectiveConnect.



The components of the Kleemann operating concept Spective are perfectly tuned to one another.

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Cmb srl at bauma 2022

With a renewed and extended range of equipment, Cmb srl will exhibit at bauma 2022. The company will display the new CRE shears Series, equipped with more powerful cylinders, faster work cycles and compact dimensions. The new FK Series will also be shown being a multi kit crusher equipped with three kits, crusher, combi and shear, is interchangeable autonomously by the operator in about two minutes thanks to the innovative quick coupling system. Also to be exhibited will be the CRR20 rail cutter which is known for its productivity and reliability in rail reduction; the SM sorting grapple; the MD multi kit, and the FH rotating pulveriser complete the range of demolition equipment on show. Cmb's forestry line will be represented by the PW deforestation shear.

Cmb staff will be at visitors' disposal at Booth 518, Hall B.

www.cmbattachments.com

'LAVINA ECO SYSTEM'

The Lavina Eco System is a new innovative technology development to deep clean, restore and maintain floors, using only one high speed floor machine - Lavina LB36GS - and five diamond pads. The main advantage is that it is a fast and cost efficient process. Lavina Eco tooling steps include Superabrasive diamond screens 220, 400, 600 grit (wet), and 'SupraShine' pads 1800 and 3500 grit (dry). The LB36GS provides light grinding and polishing. Its planetary technology with floating heads and 91.44cm work path offers higher productivity compared to a single head machine or a heavy grinder.



Users are able to restore up to 1,500m² in one day. Lavina Eco is ideal for upgrading large concrete areas but can be also used on stone, terrazzo and coated floors.



The new diamond core drill DKS32 from Weka

The new Weka DKS32 is a compact and powerful wet/dry core drilling machine with a soft impact function. The DKS32 enables powerful dry and wet drilling of reinforced concrete, especially with the help of the soft impact, which can be easily switched on and off via a rotating sleeve in the front area of the machine. Three mechanical gear steps en-

able a good variation of the speeds and thus a wide drilling range. The machine has a total weight of 12.4 kg (without cable) and a total length of 560 mm (without handle). In addition to the standard variant DKS32, a faster version DKS32 S will also be available. Weka will display its latest developments at its booth at bauma.

Presentation of the new MT 385 at bauma 2022

In recent years Taber has added some intermediate models to its range of hammers (MT 195, MT 800) to better meet market requirements and following these models, it is renewing its 'light' range. The objective is to produce hydraulic hammers that, with lower consumption, are more efficient and offer greater productivity. The company will take advantage of bauma to present the update of its most iconic model (MT 375) for machines between 5t and 8t. The new MT 385 offers a better power to weight ratio than its predecessor while maintaining the through bolts free design and mono bloc cylindrical profile that Taber pioneered more than 20 years ago which characterises the company's offering. Its simplicity in conception makes it an efficient and easy to maintain hammer.

The Taber booth will be located in the northern exterior area of bauma FN 817-6.



Cams to introduce the new 'Centauro XL 150.69-APR' at bauma

Cams, a leading manufacturer of asphalt recycling technologies, will present a new member of the Centauro series at the most important exhibition in the construction sector. Versatility and compactness are the main focus on which Cams has focused on when designing its newest mobile plant, the Centauro XL 150.69-APR. The company believes that the new development is the only mobile shredding and screening mobile plant capable of recycling 100% of the removed asphalt. The Centauro XL 150.69-APR has been designed to achieve the highest production rates, thanks to an enlarged screen surface of 6.9m² and a slow rotating shredder FTR 1500.

Cams states that it believes it has created the perfect recycling solution but maintaining the compactness that distinguishes its machines. A primary shredder, supported by a patented pre-crushing system, combined with the action of an over band magnet, a screen and a secondary shredder, powered by a powerful Cat C9.3 engine, ensure the recovery of all removed material, milled and asphalt slabs, preserving the original bitumen content. The Centauro XL 150.69-APR has been designed to work in hybrid or fully electric mode, it can be equipped with biodegradable lubricants and aims to deliver minimal noise and dust emissions, which have been certified.

The numerous patented systems installed on the recycling plant make it versatile in the treatment of many materials and allow it to optimise its performances by significantly reducing wear costs and environmental impact. Visitors to bauma are invited to come and see Cams and Centauro XL 150.69-APR, with a logo renewed for the occasion, at stand FS/1211/9 in the Open Air Area of bauma 2022 Munich, Germany.



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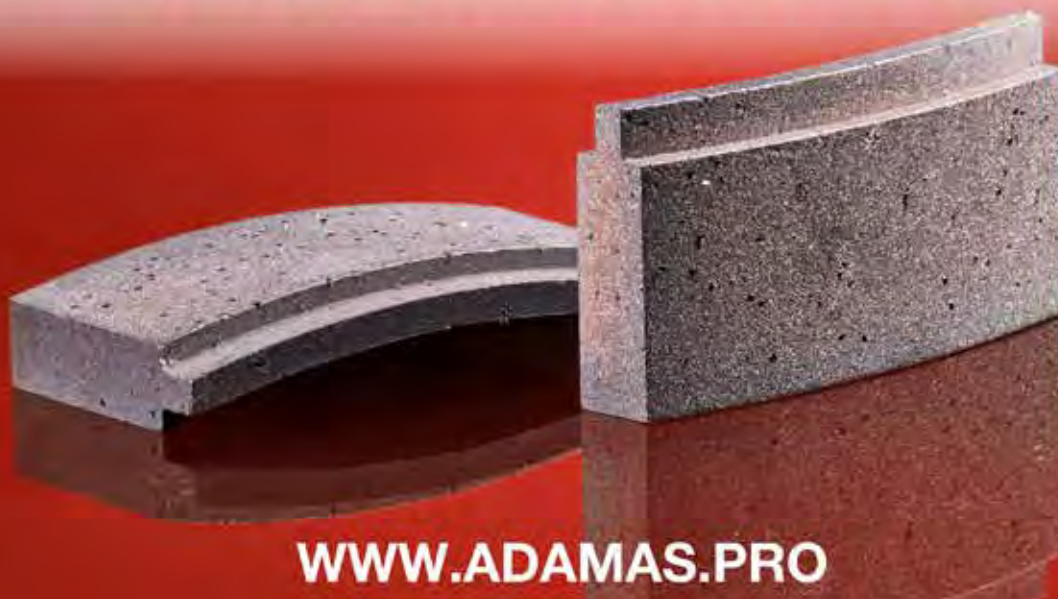




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KEMROC AT BAUMA 2022

Kemroc, through its new division Kemsolid, is aiming to provide innovative machines and processes for foundation engineering. Supplied by the new division, a core element of Kemroc's booth at this year's bauma exhibition will be a KSI mixing attachment to produce soil/cement structures in-situ. On display, there will also be some well-known and some new milling excavator attachments. All products on the booth are designed to help experts employed in demolition and recycling, construction and mineral extraction to gain extra added value from their carrier equipment.

At bauma 2022, Kemroc will display its range of hydraulic milling excavator attachments as well as several

new models. Its 400m² booth - No. FN.1019/5- will be located in the outdoor area north and will have an orange Kemroc balloon floating above it. A major development being unveiled at the show is the new division, Kemsolid. This division is focused on the manufacture and development of innovative products and processes for foundation engineering, with the core elements of the product offering being the KSI soil mixing excavator attachments. These penetrate the soil and mix it with a binder suspension material in the same operation. Without the need to move massive amounts of material, dense, load bearing, resilient soil/cement structures are produced in-situ to the required size and shape. The

new division aims to tackle complex soil permeability and load bearing problems in infrastructure projects.

Product range expanded

Kemroc has continued the development of its range of cutter attachments for excavators and backhoe loaders, enabling operators to carry out complex tasks in difficult, limited space conditions using joysticks while sitting in the cabins. Kemroc has expanded its product range further, extending the DMW range with the DMW 130 (excavator weight 18t – 35t) in a modified version for permafrost, soils and rocks with uniaxial compressive strength of up to 40 MPa. It also has an improved method for material discharge as well as more cutting depth. Also being shown will be the new EKT 20 (2t – 4t), EKT 40 (5t – 10t), and EKT 60 (10t – 17t) that expand the EKT range of cutter attachments which can be converted into chain cutters. The new models expand the range towards lighter carrier machines.

Also being exhibited will be the completely new KRC 'bull head trencher' range which is characterised by cutter drums being angled towards each other. The KRC 140 (20t – 40t) model will be on display, being designed for excavating narrow trenches without the need to slew back and forth sideways. The new 'KRD 120 Mix' model (25t – 40t) will be unveiled featuring an extension including an injection tube for mass soil mixing for foundation engineering applications. The KTR range of trenching attachments with rotational chain cutter has now been reduced to two machines, the KTR 65 (18t – 25t) and KTR 130 (25t – 35t).

At the bauma show, Kemroc is expecting to meet a large number of domestic and foreign trade visitors and looks forward to supporting them with the right excavator attachment to meet their requirements in the demolition, construction and mineral extraction industries.

NEW PRODUCTS FROM EPIROC

From its booth FS 1208/1 at bauma 2022, Epiroc will focus on automation, digitalisation and data driven productivity development for the entire construction industry. Epiroc will show how it strives to help customers work smarter, maximising the latest technologies, and developing new ways of raising efficiency while improving sustainability. With this in mind, Epiroc will launch a number new attachments and tools for the demolition industry.

New 'V Cutter' model

In April this year, Epiroc launched its V-shaped drum cutter for working with rock, concrete walls and surface profiling, trenching, soft rock excavation, frozen soil excavation and demolition. A patent pending solution, it has been rigorously tested in all these applications. By mounting the drums in a V-shape enables a cut with a flat base and no material is left untouched between the drums. Where a regular drum cutter must move from side to side to create an even trench, an approach that causes extra wear on the carrier arm, the V Cutter

can achieve the same result by just going straight. It basically works like a bucket, which makes it easier to use, friendlier for the carrier and a lot less energy and time consuming.

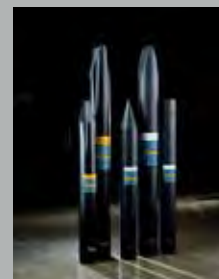
A seemingly simple solution with extraordinary effectiveness, the V Cutter is said to provide energy savings of up to 40%. In addition, compared to a chain cutter, the cutter is said to save more than 40% on picks and up to 50% on maintenance time. Epiroc states that investment is up to 25% lower than for a chain cutter and the lower weight makes it possible to use a smaller carrier. At bauma, Epiroc will introduce the latest addition to the range, a smaller model suitable for carriers of 15t-28t.

Hydraulic breaker working tools on demand

Epiroc has now added a 'tool on demand' concept to its supply of working tools for hydraulic breakers. Sometimes standard working tools are not enough as special applications often require a longer or shorter working tool or a special material. For example, high temperature applications require working tools in heat

resistant vanadium steel, whilst other applications may require longer tools or special shapes. Epiroc has stated that customers can now order exactly what is needed, in the size required, with a variety of tool tip geometries. 'Tool on demand' offers high flexibility based on applications or customer preferences, with all lengths and shapes being available.

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ICS DIAMOND TOOLS AND EQUIPMENT REBRANDS TO OREGON

ICS Diamond Tools and Equipment (ICS), has announced that it will rebrand to Oregon, a division of Oregon Tool, Inc. ICS was founded within Oregon in the '90s, and this transition will allow the company to continue to evolve while building on its legacy under the name of its flagship brand. Unifying the two brands is a natural next step in re-defining what's possible in the power cutter market.

Joe Cox founded Oregon Tool, leaving his mark as the creator of saw chains that have made their mark in the industry. In the 90s, a small team of people saw an opportunity to build on Oregon Tool's strong foundation. The result was the creation of ICS, which forged a path in designing and developing power cutters for individuals working with concrete and iron pipe. At the heart of it, ICS has always been Oregon, just a different brand. "Intrepid, bold thinking is a deep seated belief at ICS, and we're excited to continue providing that innovation, quality and performance as Oregon," said Paul Tonnesen, CEO of Oregon Tool.

During the transition to the Oregon brand on 24 October, there will be a period where both ICS and Oregon products live in the marketplace together. What's important to remember is that while the ICS name is changing, the commitment to its people, customers and product is not. The company states that it is still the same great team supporting its customers.

Headquartered in Portland, Oregon, and distributed in 70 countries, the construction division of Oregon is the inventor of diamond chain cutting technology and states that it has been the global leader in chain based concrete and pipe cutting solutions for over 30 years. Because 'good enough' isn't good enough, and equipment needs to show up and measure up, Oregon construction products are tirelessly designed, engineered and manufactured to exacting standards. Using high quality materials, its 'SealPro' anti-stretch technology reduces chain stretch to maximise chain life; its patented 'PowerGrit' diamond cutting chain makes it safer and easier to cut ductile iron, HDPE and PVC pipe in confined spaces with significantly lower kickback risk.

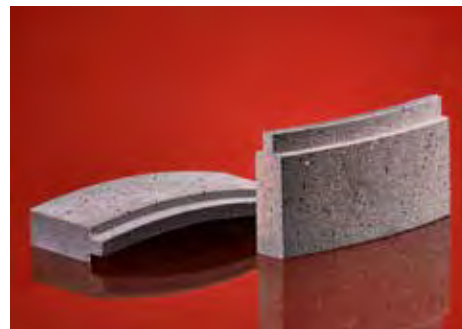
Oregon diamond chain, guide bars and powerheads offer a cutting system with up to 63cm cutting depth. Also, Oregon construction powerheads are designed for wet cutting with integrated water delivery systems that reduce airborne particles during the cut. Oregon is part of the Oregon Tool, Inc. portfolio of brands.

oregonconstruction.com



'Kondor' grinding machines

At Janser's bauma booth (Hall A1; Booth 102) machines and developments for subfloor preparation will be presented. In the area of stripper machines, in addition to the familiar range, an 18V device will be presented as an electric hand scraper. Janser will also present the Kondor during bauma, a new powerful, robust floor grinding machine recommended for small to medium areas of subfloor preparation. The Kondor is designed for dealing with the simple grinding of screeds and other substrates to the maximum aggressive use of PCD tools when removing fillers, flooring residues or adhesive. Ergonomic handling with effective grinding behaviour and easy tool change are the distinguishing features of the robust Kondor. The patented tool holder system enables tool free changing of the grinding rings, which are offered at an interesting price/performance ratio. The working angle is adjustable and is indicated by a level indicator. The guide handle can be adjusted in the angle of inclination to the body size of the operator. In the transport position, the height is only 480mm.



Adamas - 45 years at the core of diamond drilling

Adamas is proud of its 45 years of dedication to the production of core drilling equipment and diamond core bits. Since the late seventies of the last century, Adamas has two production facilities in full operation; one in Herentals, Belgium, for the development and production of diamond segments and core drill bits, and the other in Maasdijk, Netherlands for the production of core drilling rigs, handheld core drill motors and accessories.

The construction market and demand for concrete coring has changed a lot in the last four decades. Adamas has been able to adapt to these changes time after time. In order to prepare for the next decades' the company has recently invested in new products, more efficient production equipment and smart software to optimise the output of its organisation. At bauma 2022 Adamas is looking forward to show visitors to its booth the latest Adamas branded product lines for core drilling as well as the possibilities presented through private labelling of all its products.

Adamas will exhibit this year for the 10th time at bauma, and is looking forward to celebrate this with all its clients and associates. Attendees of the Munich show are invited to come and visit Adamas in Hall A1-233.



Solga Diamant at bauma

During the long waiting period for bauma, Solga Diamant reports that the company has not stopped looking for new solutions and is looking forward to sharing them with visitors to its stand at the Munich show. To help reduce the waste of natural resources, the company has developed tools such as dry core bits and dry wall saw blades. Both systems have internal elements that dissipate the heat generated during cutting or drilling, which with the help of innovative systems incorporated into the machines, results are achieved, which even avoid dust, especially in wall sawing.

The new range of wall saw blades and core drills will come with matrix segments, and following market

trends, the tools have been developed with positioned diamonds that improve cutting speeds while maintaining high performance. The new 6000 series wall saw blades are designed for the latest generation of electric wall saw machines, with fast disc with high performance. Special discs for ultra-compacted materials such as Dekton, allows cutting thicknesses with what is said to be the perfect cut without chipping. The new diamond wire for steel cutting has evolved HIP bead that enables a higher cutting speed.

Those interested are invited to the company's stand to see all the new products.

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Dynamic start to 2022 for the Wacker Neuson Group

The Wacker Neuson Group has made a successful start to 2022.

Group revenue for the first quarter amounted to €521.6M, which is a rise of 20.2 % relative to the previous year (Q1/21: €434.0M). Adjusted for currency effects, this corresponds to an increase of 18.4%. Profitability was impacted, however, by inefficiencies caused by continued supply chain strains and sharp rises in input costs: earnings before interest and tax (EBIT) fell 10.3% to €39.1M (Q1/21: €43.6M). The EBIT margin amounted to 7.5%, which represents a decline of 250 basis points (Q1/21: 10.0%).

“Despite continued supply chain challenges, our teams succeeded once again in meeting dynamic demand for our products and delivered another quarter of strong growth. At the same time, the coronavirus pandemic and continued supply chain disruptions are still impacting operating workflows and resulting in rework. Along with the high cost of materials and rising energy prices, these factors are putting our gross margin under pressure,” explains Dr. Karl Tragl, chairman of the executive board and CEO of the Wacker Neuson Group.

Double digit growth across all reporting regions

Revenue for Europe (EMEA) for the first quarter rose 17.9% relative to the previous year to reach €411.6M (Q1/21: €349.2 M). Double digit growth rates made Germany, Austria, the UK, France, Poland and the Czech Republic the key growth drivers. The Group benefited from strong demand for excavators, wheel loaders and dumpers for the construction industry. Wacker Neuson's own rental business also developed on a positive trajectory. Q1 2022 also saw a significant upturn in business with agricultural customers of Group brands Kramer and Weidemann compared with the previous year, with an increase of 32.2% recorded (Q1/22: €105.5M; Q1/21: €79.8M).

In the Americas, positive trends in the US and Canada maintained momentum. Revenue in the first quarter grew at an above average rate of 32.9% to reach €90.8M, driven in part by strong demand from key accounts (Q1/21: €68.3M). Adjusted for currency effects, the rate of increase amounted to 23.7%. There was particularly strong growth in excavators and compact track loaders as well as in worksite technology products including generators and light towers.

In Asia-Pacific, revenue increased relative to the previous year by 16.4% to €19.2M (Q1/21: €16.5M). The upturn amounted to 12.7% when adjusted for currency effects. There was sustained strong growth in Australia, particularly in excavators and rollers, but the Group continued to face a challenging market environment in China.

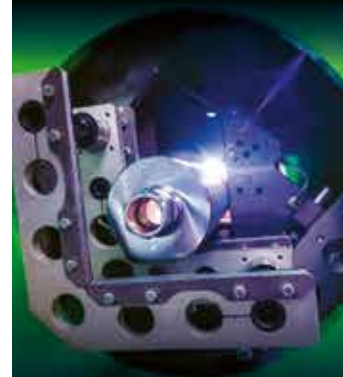
Guidance for 2022 remains unchanged

The executive board's fiscal 2022 revenue prediction remains unchanged in the €1,900M to €2,100M corridor. The EBIT margin is expected to lie between 9.0% and 10.5%. Relative to the previous year, it is unlikely that the company will be able to fully compensate for inefficiencies in production and logistics as a result of overstretched and repeatedly disrupted supply chains plus sharp rises in material, shipping and energy costs. Furthermore, the executive board sees a risk that disruptions to supply chains could increase further in the short term. The guidance for fiscal 2022 does not consider the further implications of the war in Ukraine on the general economic climate or the health of global supply chains. Similarly, the impact of coronavirus containment measures in China is not reflected in the guidance.



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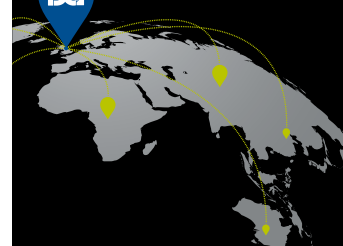
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Tyrolit to show its latest developments at bauma

At bauma 2022, which takes place from 24 to 30 October in Munich, Germany, the system solutions provider Tyrolit will present its latest innovations to an international audience. At the 205m² indoor booth (No. 139, located in Hall A1) and the 160m² outdoor area, the Austrian manufacturer will provide an overview of its comprehensive product assortment, in particular regarding its concrete drilling and cutting, floor grinding and digitalisation offering. The outdoor area will serve as the venue for trying and testing some of the products live.

Core business concrete drilling and cutting

The exhibition's highlights comprise of a number of upgrades within the manufacturer's core product range for concrete drilling and cutting, namely core drilling, wall sawing, floor sawing and wire sawing. The new developments range from upgraded specifications and new diameters of wall and floor saw blades to the new 'DDL-HH Fast Cut' dry drilling bits, to the current assortment of floor saws. Product highlights, such as the WSE1621 wall saw and the ATEX certified SB wire saw will also be part of the exhibition. Moreover, the 'PC4505 Bump Grinder' will be presented at the outdoor area in collaboration with Lissmac.

New developments for smaller drilling, cutting and grinding jobs will also be part of the exhibition. In addition to two new angle grinders, the new DHE32 drill hammer, the HGE125 concrete grinder and the

HCE125 wall chaser will be on display. Moreover, Tyrolit will present the new 'DC-Cut All' universal saw blades for petrol and electric grinders, the entire, revised dry cutting range as well as innovations for tile sawing. A special highlight will be the 'Rescue' blade, which has been specially developed for use in rescue operations and which is now also available in large diameters.



Focus area floor grinding

Currently, Tyrolit is working on a complete in house product range for floor grinding, and, thus, several innovations for this focus area will also be presented at the show. In the future, customers will be able to choose from a wide range of coordinated floor grinding products. In addition to classic floor grinders and corresponding tools, the assortment will also include chemicals, various machines for removing surfaces and coatings, special vacuum cleaners and polishing tools. The offering at bauma includes newly developed floor grinding machines such as the FGE515 floor grinder for floor preparation and polishing, as well as a range of brand new metal bond floor grinding shoes.

Digitalisation on the rise

Another focus area at the exhibition will be the (new) developments in digitalisation. Tyrolit's 'MoveSmart' technology is a fleet management platform, which can be used to intelligently plan the use or maintenance of the customer's machinery to get the most out of the machines. At the bauma there will be many upgrades for the platform to see as well as the associated hardware. Besides specially generated QR codes, which can be used to trigger service requests and machine inspections directly, the service area, for instance, has also been optimised. In addition, the platform now works with GPS trackers and Bluetooth tags for locating and monitoring the activity of the machines.



Schwamborn to present innovative solutions at the bauma

At the bauma in October, Schwamborn will once again be presenting a number of innovations that aims to make traditionally difficult work considerably easier.

Whether demolition management or floor construction and renovation, the construction industry always faces the same challenges. The work has to be faster, more efficient and, above all, constantly improved in terms of ergonomics and health protection. Outstanding area performance, especially for large areas, with significantly improved ergonomics are the guidelines on which Schwamborn's latest innovations are based.

Remote controlled milling machine

With a 400mm working width, remote control, traction drive both via cable and battery, an extremely even milling pattern, maximised manoeuvrability thanks to front wheel steering and significantly improved dust extraction, are the highlights of the new BEF 400RC. The new development has been developed as milling is an indispensable activity when it comes to the deep acting removal of coatings, bumps or protrusions, such as road markings. The range of accessories and tools for machine has been expanded to include concrete saws (or cutting discs) in addition to the eight point carbide milling cutters. With this milling machine it is also possible to cut expansion joints or to prepare the floor for an even greater depth removal by means of deep and even sawing or cutting. The function of setting the milling depth independently on the right and left increases the area of carbide application of the milling machine, which can be controlled ergonomically with the remote control.

Good news for the demolition industry

The WDS 530 wall and ceiling grinding machine, which has won several innovation awards, can now also be used with excavators. In combination with a quick coupler with swivel rotor, decoating is now possible in all conceivable angular positions, even when dealing with contaminated material. With the help of optimised dust extraction, the disposal volume can be reduced to a minimum. The WDS 530 not only accelerates the work that is hazardous but also helps to reduce disposal costs in the long term. Schwamborn will also present the little sister of the WDS 530 at bauma. The advantages are said to be that it can be used in smaller spaces, offers considerable manoeuvrability, and can be operated with a mini excavator with an electric drive. This new WDS 250 works with a grinding radius of 250mm and can be fitted with grinding and decoating diamond tools.

New generation of diamond tools

The best possible tools are required for decoating, sub-soil preparation and renovation for the production of concrete floors. For all this work, Schwamborn offers special tools that are perfectly matched to each other. Gaining ground is the central quality feature here and that is why the new generation of diamond tools has been given the name 'Giants'. For example, the Giants 'Center' clears even the strongest concrete, while the

'Wide Receiver Superflex' pads provide the finishing touches at high speed. The diamond tools are available in grades AAA, AA+ and AA. Excellent results are guaranteed by the company with gradation being based exclusively on the size of the area to be processed in order to enable economic use.

The industry has a problem. There are fewer and fewer workers who want to expose themselves to the traditionally high levels of dust and physically demanding work. This means it is all the more important to develop machines, tools and industrial vacuum cleaners that bring lasting improvements in ergonomics and health protection. Schwamborn states that it has already set milestones here in recent years.

Remote controlled machines, which no longer expose the workers directly to dust pollution, are just as much a part of the solution to these problems as a perfected and coordinated system for dust reduction. An H-certification of the industrial vacuum cleaners are just as self-evident as the connection between the machine and the vacuum cleaner, which is still often identified as a weak point.

Schwamborn states that it has made considerable progress here in particular. The machine adapter suction system, which has now been further enhanced, and is constantly being improved, ensures a significant reduction in construction site dust.

For everyone interested in sustainably gaining ground, Schwamborn can be found at bauma in Hall A1, Stand 314 and in courtyard 12A.



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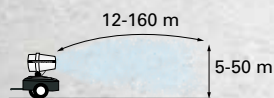
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New TL25.60 telehandler and S86 skid steer and T86 track loaders

Bobcat has expanded the company's next generation 'R-Series' range with the launch of the new 'Super Compact TL25.60' telehandler and the new S86 and T86 compact loaders.

As the smallest machine in the range, the new TL25.60 brings the number of rigid frame telehandlers from Bobcat for construction, rental and general handling to 11 models. The new S86 R-Series skid steer loader and T86 R-Series compact track loader replace the previous 700 and 800 'M-Series' loaders and complete the current R-Series loader line up.

Commenting on these new product introductions, Mike Vought, vice president Product Management at Doosan Bobcat EMEA, said: "Because job sites are becoming ever tighter on space, telehandlers must also become more compact and agile. We have designed the new Bobcat TL25.60 to not only meet this demand but to be the best compact machine on the market. The S86 and T86 are also exceptional machines - the most powerful compact loaders we have ever built, providing even more versatility as both tool carriers and workhorses."

The New TL25.60 Super Compact telehandler

The new TL25.60 telehandler has been designed for simplicity of use, excellent stability, optimum comfort and safe operation in any type of application. The TL25.60 is powered by a Bobcat Stage V engine, has a rated operating capacity of 2,500 kg, offers a maximum lift height of 5.91m and a maximum reach of 3.31m. The 'Bob-Tach' carriage (manual or hydraulic) increases versatility by allowing the TL25.60 to utilise attachments designed for the Bobcat loader range. Florian

Hilbert, Telescopic product manager EMEA at Bobcat, said: "On top of this Super Compact format, the cab in the TL25.60 is the same as Bobcat's top of the range R-Series 18m model, so customers can be certain they have the most spacious cab in the compact telehandler market. A complementary version of the TL25.60 aimed at the agricultural market will be launched in 2023."

S86 and T86 compact loaders

Delivering a higher engine and hydraulic output, the Bobcat S86 and T86 are the most powerful compact loaders the company has ever built. Both machines use a well proven Stage V compliant 3.4 l Bobcat engine producing 78kW at 2,600RPM. Just like all R-Series loaders, the engine is mounted in line with direct drive, which improves the cooling capacity of the engine and hydraulic components. This change increases reliability

in high intensity applications such as road construction and forestry work. John Chattaway, Loaders product manager at Bobcat, commented: "The S86/T86 follow on from the very successful introduction of the smaller S66/T66 and S76/T76 loaders. The S86/T86 top of the range models continue the same trend by setting new industry standards in every area, from in-cab comfort and safety to available power and attachment versatility. The S86/T86 takes what is possible with compact loaders to a whole new level."

Hydraulics and increased lifting

One of the most exciting new aspects of the S86 and T86 is that both machines have for the first time a choice of three different auxiliary flow outputs. There is a standard flow configuration providing 87l/min for applications such as load and carry, or where low hydraulic flow attachments are used. Bobcat also offers two additional hydraulic performance functions using the new 'Electronic Displacement Control' (EDC) pump: a high flow function giving 138l/min and a new 'Super Flow' function taking auxiliary flow to 159l/min.

The new S86 and T86 workgroup design also increases the ability to lift more, carry more and reach further. This is achieved by a new workgroup geometry that improves lifting capability throughout the lift arm's range of motion. When combined with the high hydraulic performance and the lighter and stronger cast steel lift arm sections, the loaders offer high capacity throughout the lift cycle even at full height.



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DEMCON FINALLY

BACK AFTER A FOUR YEAR WAIT

Northern Europe's largest show for demolition, recycling, remediation, concrete cutting, grinding and polishing of concrete floors and much more is back. Demcon is set to take place 24-25 November, 2022, at Infra City in Bredden north of Stockholm, Sweden.

After four long years, it is once again time for the Demcon trade show. The last time the show was held was in the autumn of 2018. According to tradition, the show should have been held in September 2020. The pandemic intervened and meant that the show had to be moved forward like so many other shows, first to September 2021, and now, 2022.

One month after bauma

When bauma was rearranged from its usual April slot to October, it was decided to move Demcon back a month. "Demcon has always been in September, ever since the 1990s. Often Demcon has coincided with bauma but we have never been before the German fair. We found it sensible to put Demcon back a month so as to occur after bauma. Therefore, Demcon 2022 has been moved to the dates 24-25 November," says Jan Hermansson, project manager for Demcon.

Although bauma is likely to be a little smaller than normal, it will attract many visitors with lots of new

products on display. It is hoped that many of these new products will also be shown to a Scandinavian audience at Demcon. After a four year wait, interest in Demcon is high and, as usual, the show is fully booked. This year, however, the outdoor stands will be limited due to the Swedish weather in November. One exhibitor who has chosen to also have an outdoor stand for demonstrations is Drome which has also has the fair's largest indoor stand.

Many first time exhibitors

Accompanying this article is a list of this year's Demcon exhibitors. Many well-known names are included, but also some that have not previously exhibited at the show. These include Flex Scandinavia, which markets a range of different machines and aids for, among other things, drilling, grinding and polishing. Also new to the show is Moldex Nordic, which provides various types of protective equipment for work in construction and remediation. Rototilt, the manufacturer of tiltrotators and quick coupling equipment for, among other things, demolition tools is also a first time exhibitor.

Also new at this year's fair is Fieldly, which develops software programmes for concrete cutting contractors to facilitate daily work. Another new exhibitor is the Big Group, which markets the new diamond tool brand Dimas in Sweden. They also have a range of other products for demolition, concrete cutting, remediation and grinding and polishing of concrete floors in their range. Another first time exhibitor is Blinken Tools, which markets American company Gssi's ground penetrating radar systems, in Sweden. Gssi's products comprise of concrete scanning equipment that effectively tells you what the concrete contains before drilling or sawing begins. DL Maskin is also exhibiting for the first time and will feature Montabert and Rotar's range of hydraulic hammers and hydraulic tools for demolition, recycling and scrap handling. Exhibiting for the first time since the 1990s is German company Kiesel's Swedish subsidiary, Kiesel Scandinavia. The company markets, among other things, a range of products for dust control, demolition, recycling and scrap work from Dehaco, Genesis and others.

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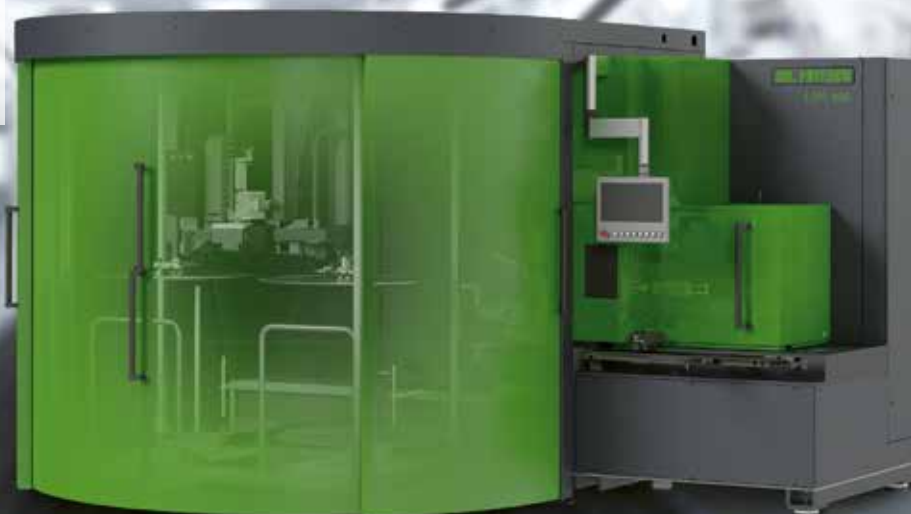
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Datum: 24-25 nov 2021
Plats: Inframässan, InfraCity
Exhibition Centre
Upplands Väsby, Stockholm

Ändring:
Start: Uppdaterad: 22-04-01

Info: S.C.O.P. AB
Webb: www.demcon.se
Ritad av: Jan Hermanson
Tel: 08-58570046
Skala: 1:300 A3

Monteryt/booth area
Monterväggar, booth walls
Öppnaväggar/Open walls
Pelare/stolpar/Pillars

Med reservation för ändringar och justeringar i mässlayouten.





Two Indian diamond tool manufacturers have also chosen Demcon to help market their tool ranges in the Nordic market, Dee Tec and Hi Tech Tools & Technologies. Another interesting exhibitor, also from India, is IDA and Demtech. IDA stands for Indian Demolition Association whilst Demtech is a similar fair to Demcon but focused on the Indian market. Representatives from IDA and Demtech will be providing information on the annual meeting and trade show which is to be held in Bengaluru, India on 15-16 September 2023.

Nordic manufacturers have proved keen to exhibit at Demcon with the company Kendrill, which specializes in the rental of demolition robots, concrete cracking and concrete cutting equipment in the Nordic region,

being a first time exhibitor. Other new exhibitors include Powertools, which markets different types of cracking equipment for concrete, stone and more, and Leif Karlsson Entreprenad, which, among other things, distributes Italian company Italdem scrap shears and demolition equipment.

Strong need for investment

An effect of the pandemic has been to greatly reduce opportunities for suppliers to visit their customers; this has created a pent up need for investment for, above all, larger machines and equipment. There have also been four years of limited opportunities to show and demonstrate product innovations. During the two intensive high quality show days, visitors will thus be

eager to see what is new to the market. With the bauma show just a month before, there will certainly be a great deal of new products and services to see at Demcon.

Many Swedish contractors PDi has spoken to during state that they have decided not to visit bauma this year for several reasons. The pandemic and the state of infection is still something that haunts people's minds, but also the current economic situation, with greatly increased prices for most things, is also having an effect. Even Germany has high levels of inflation which has seen rises to the costs of exhibiting, hotel prices, stand building etc. Demcon therefore provides the ideal event for businesses to find out about the latest industry developments but closer to home. The organisers are also hoping to see many visitors from the other Nordic and

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Baltic countries, although it is certain that there won't be many visitors from Russia.

Supported by the industry associations

As usual, Demcon is supported by the trade organisation Byggnadsberedning (BFB), which is a joint trade association for Sweden's demolition workers, cleaners and concrete cutters. BFB will gather for its autumn meeting alongside Demcon. The show is also supported by the international umbrella organisation IACDS, which consists of industry associations for concrete drilling around the world. Demcon is also supported by the European Demolition Association, EDA. The latter two associations will have representatives at the show. It should be mentioned that the BFB at the end of 2021 chose to leave both IACDS and EDA.

Demcon party and award of the Swedish Demolition Award

According to tradition, an industry dinner is arranged

on the Thursday evening of the first show day, called the Demconkalaset. The dinner consists of both manufacturers and businesses active in the industry provided



with the opportunity to come together in a more relaxed manner. Just before dinner, BFB provides networking and social opportunities in the foyer outside the dining room. It has proved to be a popular event, attracting many who will not be at the dinner.

Demconkalaset will also see the Swedish Demolition Prize awarded. The jury for the Demolition Prize has not revealed who has been nominated, but stated that there will be just over 10 companies set to receive the Swedish Demolition Prize in 2022. The Swedish Demolition Prize is awarded by the magazine Professionell Demolering in collaboration with the industry organisation BFB. Professionell Demolering invites anyone who has an interesting project or product news to provide information regarding their news or developments as there is still time to be selected as a winner.

All in all, Demcon, 24-25 November at Infra City in Bredden, north of Stockholm, is set to provide two interesting industry days. Make sure not to miss them.

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Pentruder news at bauma 2022

"Finally, it's time for Bauma and we at Pentruder are pleased to be able to present two new products. A new and improved trolley for the HF-wall saws, and a core drill within the new HFi-system", says Elin Skantz at Pentruder.

The new HF trolley shares a lot of modern design features with the RS2 trolley. It offers even better sturdiness than before, and thanks to the new design there is now room for a saw blade and blade guard in addition to the saw head, power pack, track and track feet, remote control, and cables.

"At Pentruder we always have the operator's daily work in mind and our focus is how we can make things

even better. Therefore we will continue to improve our products if we see a possibility to do so, even if they are selling well", explains Elin Skantz, in charge of market communication at Tractive AB, the company behind the Pentruder brand.

Next in line in the HFi-system is the heavy-duty core drill MDU2 together with new accessories. The MDU2 will be a powerful 3-phase motor with a very

wide speed range for both small and large drill bits.

"The MDU2 has been under development for several years, and we are very pleased with the results. We know that this machine is very longed for, but we cannot launch it until all field tests are done, and we have all parts in stock. As everything looks now, we are planning a launch within the next year", says Kristoffer Johnsen, Operations director at Tractive AB.

DEHACO GETS READY FOR BAUMA 2022

After a two year wait, bauma will finally take place from 24 to 30 October 2022 in Munich, Germany. Dehaco will of course be present at stand number FN624/7, when the company's stand will once again feature many eye catching 'turquoise' products.

These will include Dehaco's well known demolition and sorting grab series, which are available with various adapter plates, including a DSG1104 with a flat adapter plate. This grab is part of the 04 series which was launched in 2020, and now consists of nine models, with the parts subjected to the heaviest wear being reinforced. The frame bushings have also been reinforced, the welds between the frame and the bushings improved and the main pins are now longer. The thickness of the shell tubes have been increased and extra bolts added to the blades.

As the Dehaco name is an abbreviation of 'The Hammer Group' in Dutch, the company will of course bring a selection of demolition hammers from the GS and HS series.

The 'Hyrax' series of vibratory compactors has a new addition this time. A vibratory compactor with a

transparent housing makes it possible to see how the IDP (Intelligent Dual Power) system inside the Hyrax vibratory compactors works. IDP has the ability to reverse the direction of rotation of the hydraulic motors to complete the job as efficiently as possible.

The 'Tera' series of dust control units was launched in 2010. These dust control units are designed, developed and manufactured by Dehaco's own production company in Raamsdonksveer. Instead of nozzles, the dust control units are fitted with a rotor. This is designed to completely eliminate clogging due to scale or dirty water. In addition, these dust control units do not require pressurised water from a pump, which means they are also very energy efficient.

Dehaco will also exhibit its entire series of floor strippers in Munich. Dehaco floor strippers are designed to easily and efficiently remove all types of floor coverings and be easy to operate. The most recent addition, the DTS220, is more powerful and easier to manoeuvre than its predecessors. Every wheel of the DTS220 is driven separately, which means the machine can even turn on its own axis.



Dehaco's aim is to attract people to its stand, and thus will be exhibiting its most eye catching product, 'the magnet', alongside 'MH125 Pro' with teeth. The latter is the successor to the MH126. It is a magnet with a powerful 9kW motor and a diameter of 1,250mm. Dehaco hydraulic magnets are made for handling ferrous metals and particularly ferrous scrap (for recycling).

Dehaco will also exhibit a selection of shears at bauma, including an RP20-IT, which is a rotating pulveriser with interchangeable teeth, and an SH250R. This is the smallest scrap shear in the new 'Eagle III series'. Dehaco looks forward to explaining more about this new series of premium class shears at the bauma fair.

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Bobcat to show new products and technology at bauma

At bauma 2022, Bobcat will be presenting several new products and technological developments for the first time. At the exhibition the stand will feature a comprehensive display of the latest Bobcat wheeled and tracked loaders, mini excavators, including four new exciting additions in the 5t to 8t category, the very latest 'R-Series' telehandlers, light compaction products and a number of new attachments.

Complementing these are new machinery premieres and the very latest in electrification, digitisation, autonomy and gamification from Bobcat. "Many of the Bobcat products being presented at bauma will be showcased for the first time. Over the last three years, we have significantly reworked our portfolio, added new product ranges and at bauma, we will premiere even more new product categories," said Gustavo Otero, president Doosan Bobcat EMEA.

R-Series S86 and T86

The new S86 R-Series skid steer loader and T86 R-Series compact track loader replace the previous 700 and 800 'M-Series' loaders and complete the current R-Series loader line up. Delivering a higher engine and hydraulic output, the Bobcat S86 and T86 are the most powerful compact loaders the company has ever built. Both machines use a well proven Stage V compliant 3.4 l Bobcat engines.

Bobcat innovations and technologies

Currently being tested in markets in the USA, the 'Quad Track' concept allows the wheels of selected Bobcat skid steer loaders to be easily replaced with four individual track pods, effectively converting them into tracked loaders. Chosen as one of the finalists in the Mechanical Engineering category of the bauma 2022 Innovation Awards, the concept adds considerable versatility to skid steer loaders, allowing them to easily adapt to different environments.

Together with a number of other electrification developments, the T7X is designed as a machine that addresses emission and noise reduction goals. The 62kW/h lithium ion battery pack can give 4h of continuous use. That figure is made possible partially by a load sensing power management system, which automatically reduces the power output to be no more than is required for the task at hand. Operators are also able to manually tune the performance of the T7X for specific jobs, including the ability to vary its drive speed while at full torque. "Another striking feature of the T7X which really stands out from any loader on the planet is the fact that there are virtually no fluids in the machine. The traditional hydraulic work group has been completely replaced with

an electrical drive system consisting of electric cylinders and electric drive motors. The only fluid that goes in the machine is about 4l of eco-friendly coolant," said Joel Honeyman, vice president of Global Innovation at Bobcat.

The Bobcat 'Transparent Touch Display' concept has been developed in conjunction with LG Electronics and BSI Research and utilises Oled (organic light emitting diode) technology. This new system provides a transparent, engaging touch display solution embedded within the glass structure of the operator's cab to enhance productivity, efficiency and visibility. The display can be positioned on the front windshield or side window of the cab on a range of Bobcat machines, including mini excavators, telehandlers and loaders.

Automation is coming

Bobcat will also be showing the new 3.5t E35 electro hydraulically controlled mini excavator for the first time. As in most heavy excavators, the hydraulically controlled joysticks are replaced by an electro hydraulic system. Such a system allows Bobcat to customise the machine controls to all levels of operator skill. "With the help of integrated sensors, the machine can also carry out some semi-automated tasks helping the operator with precise grading and levelling, trenching or repetitive tasks such as return to dig among others. We want to show the capability of such a concept and prove the value it brings to the operator's job and their productivity," said Vijay Nerva, head of Innovation and Acceleration, Doosan Bobcat EMEA.



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New '817 Electro Battery' machine concept from Sennebogen

The 817 Electro Battery battery powered electric material handler is the first battery powered model that Sennebogen will be adding to its tried and tested electric range in the future.

For over 30 years, Sennebogen has been building electric material handlers, which are used stationary or with limited mobility due to the cable, and provide a solution for a wide range of applications. Sennebogen's new 817 Electro Battery material handler can continue working even when it is connected to the mains power for charging. In mains operation, dual power management ensures that the power supply from the mains is used for the work movements, while the excess power fed in also recharges the batteries so that the machine can then work independently again. With an assumed 2,000h/year and energy generation from renewable energy sources, the battery powered material handler is said to save an average of 31,800kg of CO₂/year when compared to its diesel powered counterparts and with equal freedom of movement. In future, the battery option will be available for the entire electric series of the 817 to 825 models.

The battery powered version of the 817 E electric material handler has a 9m reach and 18t operating weight. If the material handler is connected to the mains,

it uses the wired power supply for the work movements without restricting the freedom of movement of the upper carriage and equipment. Because the charging power is supplied to the undercarriage, the machine can continue to swivel and work 360°. If more power is supplied to the machine than it consumes, this is used to charge the batteries at the rear. If the mains connection is disconnected, the 817 Electro Battery automatically detects this and works autonomously in battery operation with the same performance data. Depending on the power requirement, the battery pack enables working times of six hours without recharging.

Thanks to the CEE 63 A connector system, the 817 Electro Battery can use the existing infrastructure of an industrial company. Charging the batteries at any location is also an option, as a simple industrial socket is sufficient. Current peaks when working with the machine can be avoided via peak shaving. The integrated power electronics also ensure a gentle motor start that is particularly gentle on the mains power grid.



More convenience, reduced service requirements, maximum safety

The battery model also offers all the advantages of the Sennebogen electric material handler in terms of operator comfort and service. At the same time, the machine operates with less vibration and noise, does not need to be refueled and has reduced service requirements, as there is no need to change the engine oil, etc. The dual power management system automatically detects the energy source and switches to the corresponding working mode automatically. In addition to regular diagnosis, the machine independently detects faults and interventions in the high voltage system and then switches off in a controlled manner, which provides safe processes in every situation.



IDROMECCANICA RAMTEC REVEAL NEW LOOK AT BAUMA

Idromeccanica Ramtec would like to welcome visitors to come and see what's new at Hall C5, Stand 415 at bauma 2022 where the company will be displaying its range of demolition attachments, and is sure visitors will like its new look.

Three of the best-selling models from its range of hydraulic breakers will be displayed, including the RT115, weighing 1,000kg, which suits the latest machines from 12t to 20t. It features the special 'X-Profile' 115mm tool, which is said to be a 'self-sharpening tool' which is recommended for particularly hard and abrasive material. The criss-cross shape and grooves allow the material to easily exit, therefore, improving and making penetration faster, avoids tool overheating, reduces wear, all meaning a longer life for the tool. The RT118, features a simple design and is said to be easy to maintain; it weighs 1,200kg and fits any machine from 14t to 24t. The company states that it is particularly suitable for reinforced concrete demolition works, channelling and tunnelling.

The heavy duty RT 150 weighs 2,400kg and suits machines from 27t to 35t. It features a sturdy casing, delivering high performance and productivity with low vibration and noise emissions. It will be displayed with the automatic greasing device which doesn't need any kind of hydraulic installation and just simply works with the vibration of the breaker. All users have to do is replace the cartridge. Most importantly the company will also be showcasing the special 'Tracker' device for tracking equipment, overview position, running hours etc. in order to keep everything under control.

Idromeccanica Ramtec will also be displaying one of its most popular hydraulic compactors, CR45, which weighs 450 kg and suits backhoes from 5t to 9t. The company says that its hydraulic plate compactors offer an advantage as the lower plate is simply bolted on making it very easy to bolt on a post driving plate, therefore, becoming a two in one attachment. It will be displayed with the new universal mechanical quick hitch which allows the operator to change attachments quickly and efficiently. Idromeccanica Ramtec also offers universal hydraulic quick hitches for heavier attachments.

The company recently introduced magnets to its range of products to enable demolition companies to handle scrap in a more efficient, sustainable and productive way. It will be showcasing one of the most popular models, the HM 95 magnet with chain, but states that it also offers other models with top brackets and teeth according to different needs and applications. The magnets are designed to enable users to lift all metal scrap making the construction site safer and turning waste into profit.

Idromeccanica Ramtec will also be displaying spares which are part of over 6,000 replacement parts that are manufactured for the most popular brands of breakers, including Atlas Copco/Epiroc, Furukawa/Kent, Krupp, Montabert/Tramac, NPK, Rammer/Allied, Soosan, Toki and many more.

If you are attending bauma, the company looks forward to meeting you and sharing more information at Hall C5, Stand 415.



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POWERING THROUGH CHALLENGES

It is no surprise that when a major tunnel repair was required in Belgium, hydrodemolition was the method of choice. The tunnel, which runs under a busy railroad, was becoming a safety hazard because parts of the concrete were falling down into the roadway. The job involved the removal of 6cm to 7cm of concrete from the ceiling and walls of the tunnel. With the growing concern of more concrete falling, this project required an experienced team to operate equipment in cold weather and complete the job as quickly as possible.

Hompert-Renes B.V., a Netherlands based hydrodemolition company, took on the challenge in Belgium and not only removed a total of 42m³ from the ceiling and walls, but completed the project in just two weeks. Using AquaJet technology, Hompert-Renes B.V. was able to prioritise efficiency and go above and beyond the original project requirements.

A new opportunity

In 1998, Marchel Hompert and his partner, Francien Renes, started Hompert-Renes B.V., a business that focuses on a variety of services, but primarily on hydrodemolition. Hompert's interest in the cutting edge technology all started with a simple video clip on the internet. When he first saw hydrodemolition in action, he was intrigued by the opportunities it presented for the industry and wanted to take a further look to research the benefits that come with this method of concrete removal. Hompert was eager to start taking on work in the hydrodemolition field and rented a hydrodemolition robot for a variety of projects.

Moving ahead

Fast forward to February 2021 in Elewijtsesteenweg 8 in Zemst, Belgium. Hompert-Renes B.V. had been contracted by Renotec, a Belgium based company that restores and renovates buildings, to complete a critical

tunnel project. This tunnel had very old concrete and ran under a busy railroad, which meant it needed to be repaired as soon as possible. Hydrodemolition was the clear solution for this project because of its safety and efficiency benefits when compared to manual methods along with the ability to remove concrete while leaving rebar intact. Although the project seemed straightforward, there was a certain challenge that stood in their way – the weather. With winter weather in full force, with temperatures average -8o in the evening and around zero during the day creating challenges for using a water based solution.

Hompert-Renes B.V. was selected for the job not only for its strong experience with the equipment, but because of their competitive bid. "One of the long term benefits we've noticed from owning our own equipment is that we're able to make our services more affordable," Hompert said. "Many hydrodemolition companies rent their equipment, which creates additional costs for everyone involved."

A Problem and a solution

Hompert-Renes B.V. sent a crew of two to take on the tunnel project, one to operate the 'Aqua Cutter 710 Evo' and another as a machinist for the Hammelmann HDP 487 high pressure pump. "Shortly after our crew started on the project, we realised we needed to remove more of the tunnel than originally planned because there was

more damage and decay than expected," said Hompert. "The crew ended up working on the entire tunnel with the exception of the floor."

Hompert's team ended up removing more than 80% of the tunnel walls and ceiling and worked 7a.m. to 7p.m. each day to complete the project meeting the tight, two week schedule. They used a fire hydrant as the water source for the Aqua Cutter and sealed up the tunnel with tarps and worked inside to combat winter weather. Since the water source was 250m from the tunnel, Hompert's team used hoses to pump the water where it needed to go. Once the water came through, the high pressure performance of the Aqua Cutter caused the cold water to come out hot. This helped keep the tunnel at a comfortable temperature during working hours and helped minimise freezing.

Although the crew faced plenty of challenges during work hours, the real issues would develop overnight as the water froze. "We knew the water in the hoses would freeze overnight so we emptied them at the end of every day," Hompert explained. "Even with this process, we needed to thaw the hoses in the mornings with a flame and heater and it took us about 2h-4h/day to remove all the ice from the hoses, which ended up being the hardest part of the project." Even with all the challenges the project entailed, the team was still able to complete the project in two weeks with just an Aqua Cutter and a pump.

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EURODIMA REPORTS STRONG GROWTH

Austria based Eurodima has been specialising in the development of professional sawing and drilling equipment for over two decades. Over the years, the Austrian company has built a strong sales and distribution network covering the entire world. Its proven wall saw blade ML89 features a patterned diamond segment for high cutting speed and extended tool life. Its WS20 wall saw, which boasts a combination of high performance and low maintenance cost, is available on the two rail systems, WS20E (Eurodima) and WS20H (Hilti). Powered by a 23kW servo engine, the WS20 accommodates diamond blades of up to 825mm in diameter and has

service intervals of 250h. The wall saw's drive unit can be converted to the wire sawing mode without the use of any additional tools. The wire saw has a rugged construction, high torque, adjustable cutting speed and pneumatic wire tensioning system. Johannes Radauer, Eurodima's managing director says of the company's progress in recent years: "We are very satisfied with the last year's increase in sales of our servo engine systems worldwide and we are continuously extending our dealer network. To see our latest innovations, customers are invited to visit the Eurodima booth at bauma in Hall A1."

www.eurodima.com



Heger enters new era

In May 2022 Heger entered a new area of further developments of its business, with a new home. Now part of the Husqvarna Construction business, former owners Stefan Haag and Günter Dreyer and the Heger team are now looking forward to expanding their offering to even more professional diamond tool users in the Central European market.

Heger has gone through several stages of development since it was founded in 1908 by Rudolf Heger in Freiburg, in the southwest of Germany. After being family business for more than 90 years, Heger became part of a large US Group until 2013, when Günter Dreyer and Stefan Haag took over and turned Heger into a fast growing and modern family business. Earlier this year, Stefan Haag and Günter Dreyer sold the company to the Husqvarna Group.

Now Heger is combining the strengths of a flexible and fast operation with the strength of Husqvarna Construction, its global experience. The new owner will further develop its position in the market for construction professionals in central and southern Europe, using the offering and experience of Heger in this demanding market sector. "Husqvarna Construction will invest to increase our production capacities to serve the European professional diamond tools user markets in close collaboration with the Husqvarna sister manufacturing plant for diamond blades and drills in Sweden," says Stefan Haag.

Former owners Günter Dreyer and Stefan Haag today have management positions in Husqvarna Construction with the focus of Günter Dreyer being the diamond tools key account business, product management and application engineering in the DACH region. Stefan Haag is responsible for the expansion and integration of the production plant in Heitersheim, Germany.

Today there are many important aspects of doing business, more than just manufacturing and selling diamond tools. The societal challenges are huge. With the EU Green deal, the requirements and restrictions to work with the materials used to build a diamond tool are high. Heger as well as Husqvarna, with its sustainability ambitions, are pioneers in these activities. Both are part of the FEPA SEAM initiative where sustainability efforts are measured and controlled. Also, regarding the safety of diamond tools, both Husqvarna and Heger are proceeding in the same directions as members of the oSa organisation to promote and guarantee the safest possible manufacturing. "We are actively participating in FEPA and oSa management positions to drive forward the European ideals of safety and sustainability," says Stefan Haag.

Husqvarna's aim is to keep Heger's strong customer focus and continue to explore further opportunities. The regional sales organisation, with team members from Heger and Husqvarna, will work together and offer the same customer support and diamond tools solutions. Also, the Heger product offering will be further promoted in more countries all over Europe. "We believe there are good possibilities in the market and we are now going forward with the Heger brand to continue to serve our professional customers in the construction business," concludes Stefan Haag.



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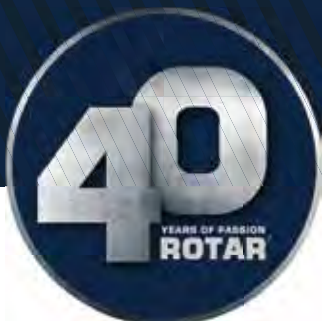
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Sennebogen presents new 30t battery powered material handler at bauma 2022

Sustainability in the circular economy is not only a means of returning valuable resources to the cycle and using them again, but also involves using durable and economical machines for the recycling itself.

Against the background of the joint goal of project partners Sennebogen and Cronimet to significantly reduce CO₂ emissions in the recycling process, Sennebogen has developed the battery powered 30t electric material handler '825 Electro Battery', which allows completely emission free working.

The Bavarian manufacturer of material handlers, Sennebogen, and the metal recycling and trading company Cronimet, headquartered in Karlsruhe, have had a strong partnership since 2014. When it came to putting the vision of a climate neutral recycling process into practice, the two companies quickly decided to work together. As an innovative Sennebogen project with the participation of Cronimet as a partner from the field of scrap recycling, a mobile 30t electric material handler with battery technology was developed to ensure maximised CO₂ savings. Both in battery operation and with a cabled power supply, the modern battery powered material handler works without restrictions in terms of space and time – essential for working in the recycling industry.

Practical recycling material handler with battery technology

Considering itself to be the market leader in the field of electric machines, Sennebogen is known for offering solutions that are individually tailored to the needs of the customer. It states that it has now developed a battery powered electric material handler that works completely climate neutrally and is perfectly tailored to the requirements of demanding metal recycling. Cronimet not only contributed significant practical expertise during product development, which was implemented, for example, in the form of intelligent add ons' relating to battery technology, but also actively contributed during the machine's prototype stage.

Like the battery supported variant of the '817 Electro Battery', which has already been launched on

the market, the 825 Electro Battery impresses with its intelligent dual power management, which allows autonomous working in battery operation as well as when connected to the mains. Depending on the power requirement, the 378kW lithium ion battery pack installed in the rear enables working times of up to 8h without recharging. If the machine is connected to the power supply via the charging point on the undercarriage, stationary work can be carried out.

Sennebogen believes that a great highlight is that when charging, excess power being fed in simultaneously recharges the batteries. The machine can also be connected to conventional power sockets thanks to the on board charger and the 63A CEE plug system used. These developments mean that additional investments in charging stations are no longer necessary. It has also been designed to offer more comfort for employees, as it is quieter, has lower vibrations and is completely emission free. The lower service costs, and thus the reduced operating costs associated with the electric machine,

are said to be another plus point of the battery powered material handler.

Already in operation

Cronimet currently uses the machine for feeding its scrap press, preparing material for the press and for sorting incoming goods. The battery powered material handler runs on 100% certified green electricity and saves up to 125t of CO₂ emissions per year in a two shift operation when compared with the previous solution and with the same freedom of movement. "With this innovation project, we are taking a decisive step towards climate neutrality," says Marijo Zeljko, managing director of Cronimet Ferrole, GmbH.

To be seen at bauma 2022

The Sennebogen 825 Electro Battery will be presented to the public at bauma 2022 from 24 to 31 October at the Sennebogen stand at the FM.712 Outdoor area, Messe München.





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Dr. Fritsch: technology leader for laser welding machines

Dr. Fritsch is the world market leader in the diamond tool industry. The innovative company has a unique selling point in the industry: the combination of manufacturing know-how and expert knowledge of material production. PDi spoke to Uwe Funk, head of development at Dr. Fritsch Sondermaschinen GmbH about the development of laser welding machines.

PDI: Uwe, please briefly describe the advantages of the new LSM 400 blade welding machine from Dr. Fritsch for users in the construction industry.

Uwe Funk: "The LSM 400 is the fourth generation of laser welding machines from Dr. Fritsch. The most important advantages are the wide range of tool dimensions that can be welded, the very good operability of the machine, the short set-up times when changing segment shapes and the very high productivity. I would also like to point out the modular design of the machine, which enables us to respond to individual customer requirements and the energy efficiency of the fibre laser technology."

PDI: For more than three decades laser welded blades have been indispensable in the construction industry. How did this development come about?

Uwe Funk: "In 1989, when Dr. Fritsch launched the first laser welding machine LSM 800, the rather conservative industry reacted quite sceptically. Until that time, brazing had been the common method of attaching segments to the blade. Dr. Fritsch, however, continuously developed the laser technology and launched the second generation of innovative laser welding machines in 1998. Almost 100 units of the LSM 240 were sold and many of them are still in daily use at our customers. The next development step was the LSM 300, introduced in 2009. This machine particularly impressed with its robustness and several new features."

PDI: What about the application in other areas, like the stone industry?

Uwe Funk: "The development of laser welded tools for the stone industry is progressing more slowly. However, there are signs of change. After all, laser welding as an alternative to brazing offers considerable potential for cost saving and automation. With the development of the LSM 400 and its advanced features Dr. Fritsch is well prepared to meet the requirements of the construction and stone industry."

The LSM 400 sets new standards in diamond tool production

With the new saw blade laser welding machine LSM 400, Dr. Fritsch aims to reinforce its position as a leader in the diamond tool industry.

With numerous new technical features, the LSM 400 has been developed to set new standards in diamond tool production and increase the added value for users in the construction industry.

New standards in productivity, process and cost efficiency

The laser welded saw blade has been indispensable in the construction industry for more than three decades. The laser welding machine LSM 400 will receive its global launch at Dr. Fritsch's bauma stand (Hall A1, Stand 432). It replaces the previous LSM 300 generation and is said to set new standards in terms of increased productivity as well as process and cost efficiency. "The LSM 400 is designed for operation with fibre lasers. The combination with a line scanner ensures penetration depths of up to 6mm (with 3kW fibre lasers), a significantly better connection between segment and blade as well as a visually more attractive welding seam. In addition to the increase in productivity, above all, the operating costs are reduced, e. g. through reduced power consumption and eliminated laser maintenance costs," explains Volker Wörn, sales manager, Dr. Fritsch Sondermaschinen GmbH.

Inside the machine, up to four cameras ensure precise monitoring of the machine interior. Two of them are used to check the welding seam on the screen. In addition, set up times are significantly reduced when changing over to other segment shapes. Accessibility of the machine is optimal in all areas, especially for segment feeding and blade loading at the front. Finally, the LSM 400, which was developed in close cooperation with the company Diamond Tools Austria, has a modern design.

"An important further development of the LSM 400 compared to the previous machine generations is the maximum blade diameter of the blade of up to 2,000 mm. This feature was regularly requested by our customers and previously considered as not feasible," adds Volker Wörn. "Along with the increased diameter the possible segment heights and thicknesses were also expanded. This in turn requires a powerful laser source that makes it possible to weld even thick segments from one side." For example, cutters for laying fibre optical cables can easily be welded with the LSM 400. Furthermore, it is possible to select a specific side clearance for each individual segment. "By adapting the helical axis, we can weld all common helical segment shapes, even for large diameters," states Volker Wörn.

Advantages for customers

Thanks to the new and intelligent programming, the operator saves valuable time during set up. With additional (optional) motorised setting aids, infeed belts are controlled fully automatically, which saves time and prevents operator mistakes. "The new programming of the LSM 400, which also performs an automatic calculation of the helical welding path, suggests pre-set parameters, depending on tool dimensions or assists with the parameter set creation. This sets new standards," says Volker Wörn. The graphic panel ensures maximum clarity of operation. During development, Dr. Fritsch placed special emphasis on the protection of sensitive machine components. Optimally placed protection and suction systems have reduced process related dirt and fumes to a minimum. "In addition, we are preparing a laser power measurement, a segment strength test unit and a marking station. These will be available as options," concludes Volker Wörn.





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Doosan demolition excavator takes down historic factory

A Doosan DX530DM top of the range demolition excavator has been used in a top down demolition of part of an historic manufacturing plant in Lissone in Monza in Italy. The site is owned by Brugola OEB Industriale S.p.a., the world leader in the production of fasteners and other parts for the automotive sector.

OEB was formed in 1926, based around the technical expertise of its founder, Egidio Brugola, the inventor of the Allen screw, as a factory for making washers, special engine rings and other components. Over time, OEB has continued to expand sales abroad, channelled not only towards the European market but also further afield, so much so that in 2006 a logistics centre was opened in Detroit in the USA, which underpinned the worldwide expansion of OEB in the sector of automotive components. OEB has recently chosen to modernise and expand the historic site in Lissone, involving the demolition of a production facility, now abandoned for some years, to make way for the new headquarters of the company, as well as a new pedestrian square, dedicated to Egidio Brugola. This is an important urban project in the centre of Lissone, which will revive an area of the city located in the immediate vicinity of the historic centre and which will increase the living standards of the entire neighbourhood.

Contract awarded to Seli Manutenzioni Generali

The contract for the demolition was awarded to Seli Manutenzioni Generali Srl of Monza, a company with over 50 years of experience in the construction sector, which has seen significant growth in its recently formed business unit dedicated to demolition and decommissioning. The company's DX530DM, the largest demolition excavator produced by Doosan, with a 29m boom and a truly impressive working range, was the ideal machine for a contract of this magnitude. Like

all Doosan demolition excavators, the DX530DM is particularly flexible, allowing the demolition arm to be swapped for an excavation arm and vice versa, thus making it possible to perform different jobs on the same site, with the same machine.

All Doosan demolition excavators are also equipped with what is said to be a unique high visibility cab that tilts by up to 30°, specifically designed for these high reach applications. Another important feature is the extendable undercarriage which provides optimal stability, which is essential on sites of this magnitude. The undercarriage width can be reduced hydraulically to make transport easier. The DX530DM equipped with a long arm and demolition grapple, carried out the entire demolition from above two industrial buildings consisting of a tower section 20m high, and two single storey buildings that made up the old OEB factory.



The DX530DM excavator, customised in the white and yellow colours that distinguish the Seli Manutenzioni Generali fleet, made it possible to perform the demolition that overcame the problems involved, ensuring surgical precision in completing the work in just eight working days.

The demolition work carried out with the DX-530DM demolition excavator was continuously supported by a Doosan DX235LCR-7 excavator which, in alternating phases, dealt with the crushing and removal of steel from the demolition waste, as well as the subsequent loading of materials onto trucks destined for recycling plants. The use of modern and innovative equipment has ensured an extremely reduced environmental impact, both in terms of noise and dust emissions, allowing minimisation of any disturbance caused to the residents in the area and the district's commercial activities and services, limiting vibrations and noise propagation for the entire duration of the demolition phases.

Seli Manutenzioni Generali has always purchased Doosan machines supplied by DMO, the exclusive Doosan importer for Emilia Romagna, Veneto, Friuli Venezia Giulia and Lombardy in the provinces of Milan, Cremona, Mantua, Lodi, Pavia, Varese, Monza and Brianza. In addition to sales and rental, DMO offers specialised technical support, both at the company's 2,000m² workshop in the new Melegnano site, and directly on site, with the help of mobile workshops. This service and the spare parts support is very much appreciated by Seli, guaranteeing excellent performance on every construction site.

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HUSQVARNA CONSTRUCTION REINFORCES ITS POSITION IN SURFACE PREPARATION

Husqvarna has taken yet another step towards consolidating its leading position in the global surface preparation market.



Having integrated HTC and Pullman Ermator a few years earlier, Husqvarna Construction continued to expand its surface preparation portfolio by incorporating major player Blastrac. Stijn Verherstraeten, senior vice president Concrete Surfaces & Floors, Rocco van Vliet, regional marketing director and John van Baardewijk, regional product market manager Surface Preparation, elaborated on the integration and rebranding process to PDi's Andrei Bushmarin in a video interview.

Sustainable growth

The brand Husqvarna was established in 1869 as a firearms maker, and is one of the oldest brands in the world today. Its business priorities have been evolving over the centuries, and currently they lie in construction, landscaping and gardening. In the construction game, Husqvarna is a true trailblazer and a market challenger, with its annual revenues reaching some €713M. For many years, Husqvarna Construction's primary focus was machines and services for concrete sawing and drilling, remote demolition and diamond tools for the construction and stone industry. Husqvarna, having succeeded in becoming a household name in the industry and in the 2010s, decided to diversify into

surface preparation, keeping pursuit of this goal with unwavering commitment ever since.

Next level of surface preparation solutions

Acquiring HTC and Pullman Ermator gave Husqvarna Construction a big leg up in the grinding and polishing business, but the product range remained far from complete. Scraping, scarifying, shaving and concrete and steel shot blasting - those alternative surface preparation techniques complementary to grinding - were missing from the offering. So it was little wonder that Blastrac, a seasoned manufacturer of high end machinery for challenging surface preparation tasks, soon came into Husqvarna's sights. The announcement of the acquisition was made in November 2020, with the deal being finalised by the end of the year. Once fierce but respectful rivals, Husqvarna Construction and Blastrac became a team.

Serving customers as one team

Commenting on the acquisition, SVP for Concrete Surfaces & Floors Stijn Verherstraeten said that many factors were in play when Husqvarna made the decision to acquire Blastrac. Apart from its engineering prowess and highly skilled dedicated sales force, the company has a strong market presence throughout Europe and

North America. A very well developed direct sales network to customers will further strengthen Husqvarna Construction's leading position in surface preparation.

The integration of the Blastrac team and business into Husqvarna Construction began almost immediately in January 2021. Despite the complexity of the task, the integration is largely complete. John van Baardewijk, a





Stijn Verherstraeten.

long time Blastrac employee and now product market manager Surface Preparation at Husqvarna Construction, said he is absolutely happy with the new business opportunities it created for both Husqvarna and Blastrac customers. As a total solutions provider and partner, with local presence all over the world, Husqvarna Construction now has a solution for any surface preparation job customers need help with.

When asked about the brand consolidation, regional marketing director Rocco van Vliet explained that this is done in two phases. Already in June this year, Husqvarna Construction introduced a fully integrated range of grinders, scrapers, scarifiers and shavers in all key markets. The second stage slated for early 2023, will see concrete and steel shot blasters as well as heavy duty ride on machines coming out bearing the Husqvarna logo. Steel shot blasting goes broader than just construction and is a cost effective, efficient and sustainable solution for paint removal and surface remediation in applications such as windmills, ship decks and petrochemical storage vessels.

A plethora of news at bauma

Even though the two years of the pandemic proved that it was possible to keep the business afloat and sales on

the up while staying home, live personal interaction with customers at trade shows is difficult to replace altogether. Stijn Verherstraeten points out that bauma, the world's biggest construction show, is the perfect stage for Husqvarna Construction to flaunt its latest innovations.

Along with its extended surface preparation offering, Husqvarna Construction will unveil a veritable host of its latest developments in Munich. For customers who prefer to operate with the mobility of cordless equipment and zero emissions in use, the 'Pace' battery system is expanding. Adding to the award winning 'K 1 Pace' power cutter, a powerful 'Pacecore' drill motor and 'Pacedust' extractor are now being introduced. The Pace battery core drill is intended for heavy duty drilling applications and the Pace battery dust extractor can be perfectly paired with other battery or corded light construction equipment. Also new in the battery range is a rebar tying machine.

The latest ride on grinder BMG 1500, with a working width of 1,500mm, is a powerhouse of a machine designed for large scale grinding projects. The grinder has an ergonomic design and is easy to operate using joysticks, push buttons and a touchscreen. The grinder's other features include an integrated dust collection system, an automatic pulse filter cleaning system, a Longopac bagging system and a pre-separator.

Another highlight of Husqvarna Construction's booth at bauma will be the recently launched range of versatile 'H-class' dust extractors. Compatible with grinders, power cutters, drill motors and other light construction equipment, all five new models are designed to contribute to a healthier working environment while increasing productivity. The extractors feature the new 'e-flow' technology that enables consistently high performance. A redesigned filter cleaning mechanism ensures simple and effective cleaning. A cost efficient Longopac bagging system, in combination with the long service life of the filter, contributes to low cost of ownership.

Also on display in Munich there will be four new demolition robots: the DXR 145, the DXR 275, the DXR 305 and the DXR 315. "Our DXR range is ideal for challenging working environments, removing the need for operators to work in unsafe spaces and delivering speed and efficiency," said Stijn Verherstraeten. All four models offer up to 20% more power. A brand new remote control unit guarantees high precision operation and enables an improved overview of the machine's operational status. The control unit's remote capabilities of up to 300m keep the operator well away from any potential risks.

www.husqvarnaconstruction.com



Avant Tecno launches two new electric loader models at bauma 2022

Avant Tecno's new subsidiary, Avant Power, will start producing battery packs for fully electric Avant loaders in 2023. Two new fully electric loader models, Avant e5-27 and Avant e5-13, will be equipped with Avant 'OptiTemp' batteries (27kW/h and 13kW/h) which features what the company says is a unique thermal management system. With a fully charged battery, the Avant e5-27 can in most cases work the whole day with one single charge.

"We have been doing research and development related to electric loaders since the 1990s, and our first fully electric loader was introduced in 1997. After working with electric loaders and batteries for decades, we realised that there was no battery pack in the world that would be perfectly optimised for compact loaders. That's why we decided to start making such products ourselves," says Mikko Piepponen, chief operating officer, Avant Power Oy.

As the team of engineers started designing the new generation batteries in house, the target was set high: the new batteries had to be 100% safe, their capacity had to be high and the production costs low. Since Avant's

are sold in all parts of the world, the batteries needed to be suitable for all markets. "Creating solutions that seem impossible at first is what gets us going," says Piepponen. After years of intense work, Avant Power is now launching two new OptiTemp battery packs. These batteries will be used in Avant e5-27 and Avant e5-13, aimed at bringing efficiency and safety of electric loaders to the next level.

Temperature always in control

The new OptiTemp battery packs feature unique immersion lithium ion technology offering Avant users several benefits. Thanks to the great power to volume ratio of the

new batteries, it is now possible to work with an electric loader more efficiently than ever. As the name of the batteries implies, a unique thermal management system, OptiTemp, keeps the temperature optimised when the loader is used or plugged into a charger. In the batteries' submersible structure, all the cells are surrounded by a special liquid. The immersion cooling system controls the temperature and enables work just as efficiently in the summer and winter. In cold weather conditions, the battery automatically pre-heats itself before use, and during operation of the loader, the temperature management system maintains the operating temperature. "Many battery manufacturers tend to forget cold working conditions, but Avant OptiTemp batteries work very well in freezing conditions – all the way down to -30°C, when preconditioned," Piepponen says.

The OptiTemp system also makes the batteries extremely safe. The specially designed liquid inside the battery modules controls heat transfer from one cell to another. As the cells won't be overheated, the batteries are extremely safe to use. Another safety solution is the multi-level protection system. All cells inside the battery are protected by fuses and isolated from each other on several different levels. "The world of battery technology is still quite wild regarding safety regulations. For us, safety is an absolute priority. We make batteries which guarantee zero incidents," Piepponen says.

Avant says that users looking to acquire a new fully electric Avant e5-13 or Avant e5-27 can expect a longer operation time, getting heavier work done, faster charging, longer battery life, working in extreme weather conditions and absolute safety. All this comes with an affordable pricing. Production of the batteries starts in the first quarter of 2023.

Charging

E5 series has three charging options. The loader has a built-in on board charger which enables charging from any 220V outlet. The on board charger is intended mainly for overnight charging.

The '400V rapid charging' stations (16A and 32A versions) are available as an option. The station is easy to move from jobsite to jobsite as it has the Avant quick attach. Rapid charging is intended for charging during the workday.



VTN Europe to outline 'big projects' at bauma 2022

Innovation, a strong working team spirit and a constant attention to environmental topics are just some of the features of VTN Europe that in 2022 returns to the bauma in Munich, one of the world's leading windows for construction machinery, construction material machinery, mining machinery, construction vehicles and construction equipment. VTN has been exporting its 'made in Italy' expertise worldwide for 50 years, and over time, it has been appreciated for the value of its production and the excellence of its services.

The Vicenza based company will unveil to show

visitors its innovations in the scrap sector, in particular the dismantling shear of the 'VD Series'. These possess a pointed shape designed for the recovery of precious material from abandoned and scrapped cars and trucks, facilitating separation and subsequent disposal. In addition to the 'Multi Kit' with booster displayed during bauma 2019, visitors will also find the complete 'Plus range', a selection of products equipped with boosters for demolition specialists. As for the world of demolition, visitors are advised to be ready for 'big surprises' that can experienced live at Stand 413 Hall B5.



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YEARS WITH SAMEDIA

Samedia is today one of the largest European manufacturers of diamond tools for professionals. The company has local roots but now has strong international recognition with plants in France, Germany, Belgium, Switzerland and USA. On 1 September a large celebration party was held in Les Herbiers, France where the head office is located.

Samedia, meaning Société d'Applications Mécaniques du DIAMant, was created in 1961 in Les Herbiers in the Vendée. PDi has written about and visited Samedia several times over the years, when the 'Shoxx' line was introduced



for example, and the company is one of Europe's largest diamond tool manufacturers.

Well-known player

Samedia is both a popular local player and a well-known international manufacturer. Samedia has several locations, besides Les Herbiers, in Germany, Belgium, Switzerland, and opened recently a branch in the United States. It currently employs more than 50 people on the Herbiers site, including around twenty sales people, and around 50 people also on the German site. Samedia has become a leading manufacturer of diamond tools for construction professionals. Its three families of flagship products are discs, plates and diamond drills. More than 1M diamond products are produced each year at its two production centres, Les Herbiers and Denzlingen in Germany.

Based on the business to business economic model in France on its main markets, it now has more than 5,000 points of sale worldwide, including 3,000 in France. In France as in Germany, Samedia represents some 20% of the market share of diamond tool manufacturers, and achieves a turnover in all markets of more than €20M, an increase of more than 10% during 2021.

Several advantages

Samedia representatives point to the technical excellence of the Shoxx product range. According to Samedia, Shoxx diamond tools are two times faster, two times more resistant and three times more secure than comparable brands, thanks to a patented process of forging diamond seg-

ments on the sheets. Samedia believes that it is therefore capable of producing tools with unequalled performance. Its innovation allows Samedia to manufacture 'the best tools', whether for cutting concrete, granite, tile, brick on construction sites, or asphalt on construction sites.

Samedia manufactures most of its products at its own French and German factories, which the company points out is unlike most of its competitors who manufacture in Asia. In terms of safety all Samedia tools meet or exceed the highest international (oSa) and national (EN13236, EN12413, etc.) standards in terms of safety. Samedia aims to go further however, now offering products that emit less vibration, less noise and less dust. Health before performance is the slogan.

Diversification of products

Samedia has over the past ten years diversified its product range by developing cutting, coring and surfacing machines adapted to its tools. Samedia also manufactures high end table saws at its new Swiss production centre. This diversification of products with a growing number of items now allows Samedia to offer complete construction equipment solutions, and to ensure the maintenance of the machinery.

Export development

Samedia exports to nearly 50 countries. The North American market alone already accounts for more than €1.5M in sales, and Samedia is expanding everywhere from South America to Oceania. Businesses are demand-

ing Samedia quality more and more and the audience of its website, Samedia.com, has multiplied by a factor of 10 over the past 5 years. With a large network of resellers in France and Germany, Samedia can support its customers closely. The Samedia sales force (25 sales representatives in France, about ten in Germany, 5 abroad) visits their customers daily, offers regular and attractive commercial operations with the creative and operational support of the marketing department.

Samedia has been renting part of its original building for 15 years to another company. But due to the economic growth of the company, Samedia has now taken over this section. There has been a need to optimise production processes and develop after sales service activities such as technical tests on a multi-purpose platform. During 2021-2022, the production area almost doubled in Les Herbiers and has increased from 1,450m² to 2,700m² with all the buildings being completely renovated.

Samedia and its employees expressed the desire to celebrate this growth and renovation on the occasion of the 60th anniversary of the company. In the evening of 1 September, Samedia invited its clients, employees, local officials and press, including PDi, to celebrate the occasion. The invited guests received a guided tour of the new and renovated premises, listened to speeches, and enjoyed a great dinner and entertainment. PDi Magazine wants to express its gratitude for being invited to the celebration.

www.samedia.com



SMART SPECIAL SOLUTION FOR HEAVY DUTY CONCRETE CUTTING AT HIGH ALTITUDE

LT Diamond Drilling's custom made wire saw and a Volvo excavator fitted with a Steelwrist quick coupler solved a tricky wire sawing application in Romania's capitol Bucharest.



The Romanian company LT Diamond Drilling Srl. was founded and is owned by Youssef Hallak and has taken on another challenging concrete cutting task. (PDi has written about the company several times. If you want to read the full story about Youssef please have a look in PDi 4-2019, <https://pdworld.com/flipbook/view/157>.) For Youssef Hallak and his staff at Diamond Drilling Srl. in Bucharest, the whole world is their field of work. They take on jobs all over the world but particularly in Europe and the Middle East. The latest job however was in the company's hometown of Bucharest.

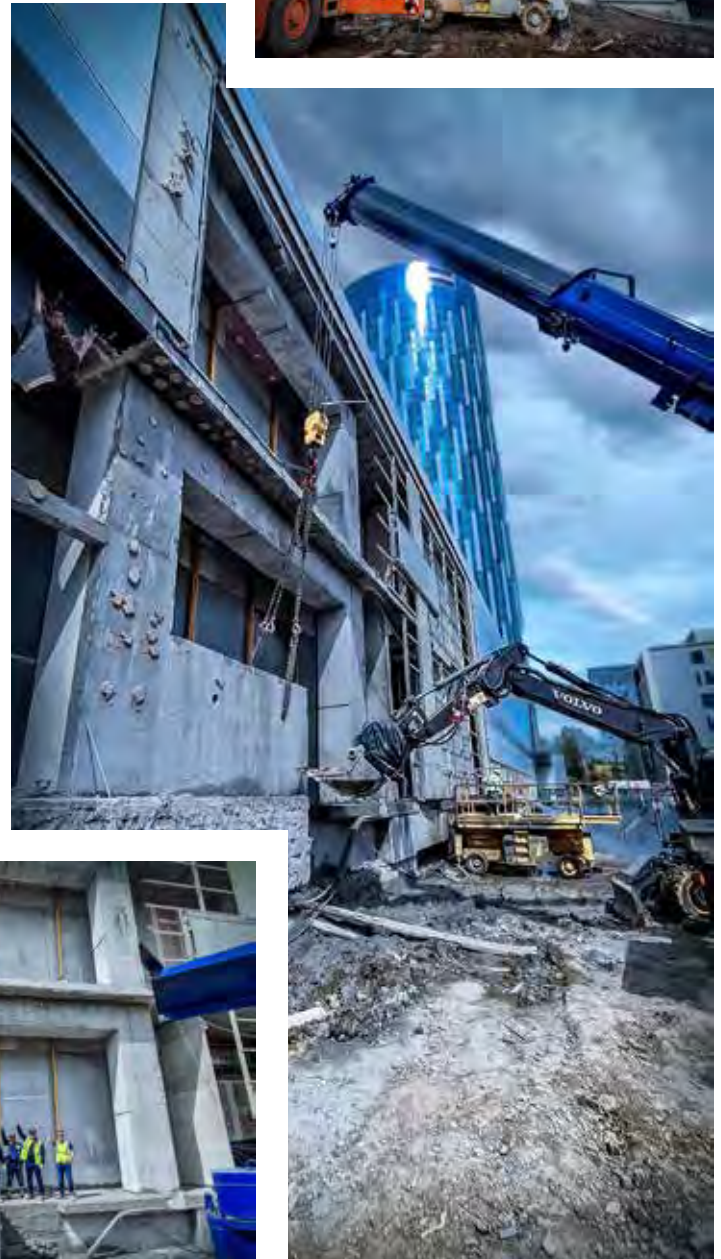
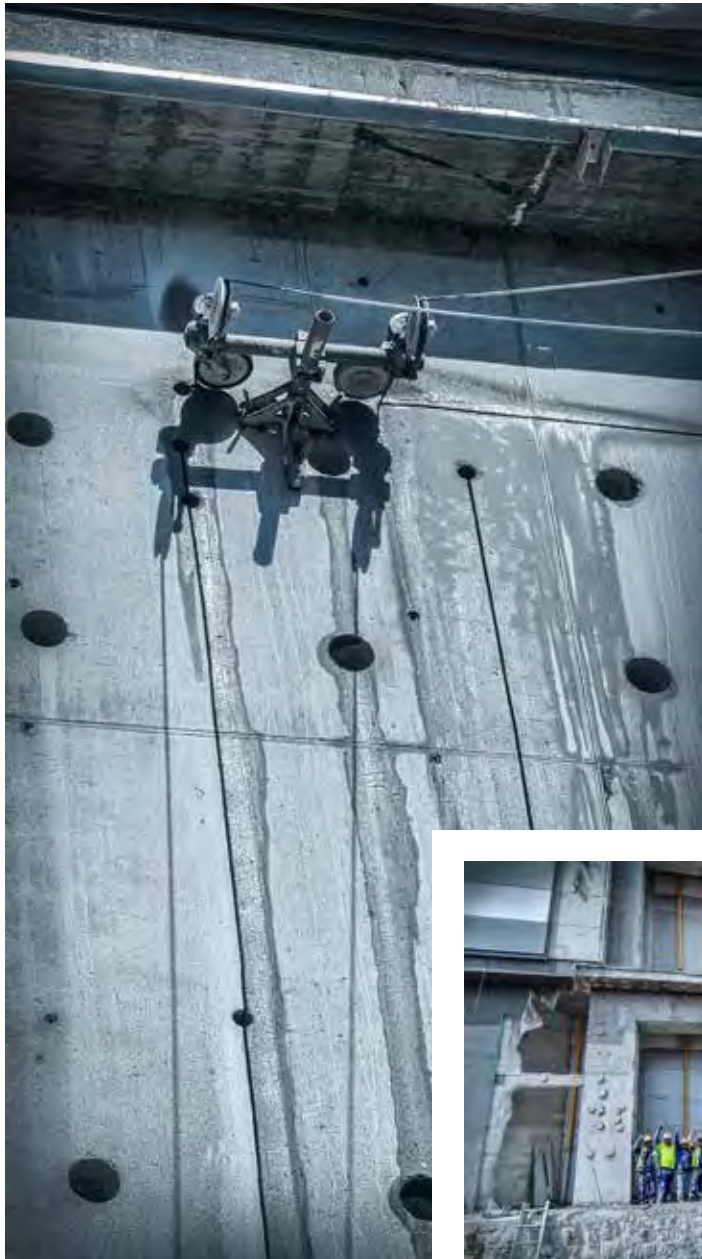
149t of concrete hauled down from 16m

At the Promenade Mall in Bucharest, the company was tasked to cut two big concrete wall openings. Each hole measured 6m x 5m and 85cm thick. The job was additionally carried out 16m above ground. In total, 24 concrete blocks were cut and holed down to the ground.

The project took 11 days to finish and involved seven workers from Diamond Drilling Srl. All together 149t of concrete was removed. For the job, LT Diamond Drilling used a custom made wire sawing machine, a Weka DK32 core drill and a Weka SR38 core drill. The custom made wire sawing unit was fitted to a Volvo E180W excavator with a Steelwrist tool connector. Hauling down the concrete blocks was carried out using a Liebherr crane.

"The solution with the special custom made wire saw fitted on our excavator was the perfect solution for this kind of job. It offered a very easy operation in a very complicated work application. We were able to be very effective with this solution with very little need of maintenance. Unfortunately we cannot show any detailed pictures of our wire saw solution for this job application in order not to reveal how we solved the technical solution," commented Youssef Hallak.

www.diamonddrilling.ro



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LINDNER'S NEW PLANT

Only one year after the opening ceremony, the move into Lindner's new offices and the modern, 14,000m² production area was completed in July this year. The high global demand for Lindner's products made it necessary to expand the plant and the team. The motto of the new facility has not changed, remaining, 'make the most of waste'.

Recycling has been experiencing a strong upswing for many years worldwide. Lindner Recycling-tech considers itself to have been pioneer, with shredding solutions from Spittal in Austrian Carinthia having been used internationally for decades. A growing awareness of energy costs, the scarcity of resources and raw materials have increasingly highlighted the importance of the circular economy. In 2019, due to the associated higher demand for efficient recycling solutions and Lindner's endeavour to support its customers in the transformation of end of life materials into recyclables, the decision was made to build a new factory which the company considers to be 'the new home of recycling'.

Even at the initial planning stage it was clear that the new office building and production facility had to be comprehensively and sustainably built in line with future requirements. In terms of production, the focus was on the further expansion of automation and robotics, the associated quality assurance, process optimisation in assembly and on extending the company's own manufacturing capabilities. "The crisis has further reassured us that this is the right path. The disrupted supply chains have also shown how important it is for us to manufacture as many components as possible in our own production. Only by investing in our own manufacturing capabilities, robotics, automation and flow production we can ensure the quality of our products and reliable delivery times in the future," says Manuel Lindner, CEO and owner.

"We want our new headquarters to be perfectly equipped for future requirements and be well positioned to maintain high quality standards and meet the increasing demand for our machines. The production area in

the new plant has doubled, which means that we are ideally equipped to cope with the increasing capacities," says Michael Lackner, managing director of Lindner. "But it is just as important to us that we offer our employees a modern workplace. By using automation and robotics, we can make work more comfortable. Heavy physical work, such as mounting machines, is no longer necessary. Instead, the task is focused on the proper operation of the robots. We are also significantly expanding our team, which means that we are currently taking on 100 new employees."

The new production area is not the only highlight; the three storey office complex also impresses with its modern construction and facilities. All in all, a great deal of importance was attached to the use of environ-

mentally friendly building materials and sustainability when building this new home of recycling. That's why a photovoltaic system supplies the entire company with clean electricity from renewable sources. In keeping with the idea of an energy self-sufficient site, heating and cooling is also provided by groundwater and heat pumps. Laminated timber from the region, a renewable raw material, was used in the construction of the hall itself. And in the design of the employee car park, it was important to seal as little ground as possible, which is why special recycled plastic turf bricks made by a Lindner customer were used for the paving. Employees will get their own company canteen this autumn, which will take over the catering on site in line with employees' shifts.





TWIN TOWERS IMPLoded IN INDIA

In India, two illegally built high rise buildings, named Havan, around 100m high, were blown up at the end of August, 2022

In about nine seconds, the Havan twin towers collapsed. The preparation had taken months. It was a particular challenge as the towers were in a densely built up area. From a political point of view, the demolition is a stage victory against what is seen as the widespread corruption in the real estate sector.

The high rise Havan buildings collapsed, creating a huge cloud of dust that completely enveloped many other high rise residential buildings in the neighbourhood. The Indian Supreme Court ordered the destruction a year ago as the private contractor had violated building regulations for the residential buildings. The court also ordered action against agency officials who accepted the building plans following a 12 year legal battle. Buyers of the apartments will have to be compensated. A total of almost 1,000 apartments were housed in the 32 and 29 storey buildings. Indian media has referred to the two skyscrapers as 'Twin Towers'.

Spectacular implosion

The controlled demolition took place in the densely populated city of Noida near the capital, New Delhi. 3,700kg of explosives were used to bring down first the basement and then the upper floors. The demolition work was carried out by the Mumbai based demolition company Edifice Engineering in cooperation with the South African demolition specialist Jet Demolitions. Utkarsh Mehta and Jigar Chheda, both Edifice partners

and Mayur Mehta, the project manager for Edifice, supervised the project together with specialists from Jet Demolition. Mohan Ramanathan, known as 'the demolition man of India', also attended the Havan implosion. Ramanathan is the 'guru' of Utkarsh Mehta and Jigar Chheda. District Magistrate Suhas L Yathiraj also attended the Havan implosion.

It was expected that the explosion would produce small tremors that would be felt up to 30m away. A government official said after the blast it went 'as planned'.



Residential demolition is a rarity in India. Builders often leave projects half-finished after breaking the law. India has experienced a construction boom over the past 20 years, which has also led to what the country considers to be a network of corruption among politicians, officials and building contractors.

Neighbouring buildings covered with special fabric

Several thousand residents of surrounding buildings were asked to leave their homes well in time before the implosion. Among other things, they were instructed that they should also take down paintings and leave windows closed. Adjacent buildings were previously covered with a special fabric to protect them from dust. Stray dogs and cows were also taken away before the explosion, local media reported. During the blast, there was a temporary ban on flying in the area, and traffic was also restricted. In total, around 88,000t of rubble was created, which will be removed over the course of three months. The towers and their demolition had already been an attraction for many onlookers days before with the implosion being one of the largest in India so far.

Utkarsh Mehta from Edifice Engineering stated that in terms of height, volume and steel used, the blast is one of the five largest in the world. The blast cost the equivalent of around €2.25M.

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Aquajet to display full line of hydrodemolition robots at bauma 2022

Aquajet, a leading global player in the design and manufacture of innovative hydrodemolition technology, will showcase its full line of hydrodemolition robots at a bigger and better booth at bauma 2022 in Munich Germany. Interested parties are invited to visit stand A1.325 to see Aquajet's revolutionary new 'Aqua Cutter 750V' with patented 'Infinity' oscillation along with the Aqua Cutter 410A, Aqua Cutter 410V and 'Ergo' compact hydrodemolition robot. The company will also highlight several accessories that aim to increase versatility.

"Our new booth has a simple, streamlined design with a generous amount of space that allows our full line of Aqua Cutter robots to take centre stage," said Roger Simonsson, Aquajet managing director. "While it's easy to find information online, seeing the equipment in person and connecting with product and applica-

tion experts is one of the best ways to learn and make purchase decisions. We're excited to be able to provide that experience for show attendees at bauma 2022."

Aquajet will showcase its newest hydrodemolition robot, the Aqua Cutter 750V. The robot features a new oscillation pattern that is said to be the first of its kind and moves the water jet in an infinity, or figure of 8 pattern. This allows the robot to remove more concrete in a single pass while still reducing shadowing, eliminating the risk of pipe holes and providing an ideal bonding surface. The new 750V also features the next generation 'Evolution 3.0' control system that includes new functions to make operators' lives easier, including the ability to automatically calculate optimal settings for lance motion for greater precision and efficiency. Like all Aqua Cutter robots, the 750V cleans and descales rebar without causing microfracturing. It is also designed to maintain exceptional horizontal, vertical and overhead reach, making it suitable for a wide variety of concrete removal tasks, such as renovation and bridge and road repair.

www.aquajet.se



New special tool releases at bauma from Hilti

Besides many new products from the 'Nuron' range, Hilti is also releasing some developments from the special tools side. Hilti is releasing a bespoke drilling wagon with four hammer drilling tools, four hollow drill bits and four vacuum cleaners on board. This solution is used to drill



SAME COMMITMENT NOW DIAMANT BOART BRAND IS HUSQVARNA

Diamant Boart will become Husqvarna. The brand change was first introduced to customers and the market at the opening of the Marmomac trade show in Verona, Italy.

For 85 years, Diamant Boart has proudly served the global stone industry with high quality diamond tools. In 2002, the company became part of Husqvarna Group's Construction division, a strong owner which proved to be a perfect match. "We kept the two brands closely side by side in a multi brand set up for many years, but now the time has come (and) we will rebrand our Stone Diamond Tools business to Husqvarna. Our quality, service, expertise and above all our commitment will remain unchanged, as will our staff, sales offices and distributors," says Pierre Andary, senior vice president, Diamond Tools at Husqvarna Construction.

The Husqvarna brand will be implemented over the coming months but the Diamant Boart trademark will be kept and used for a selected range of products. The Husqvarna Stone Diamond Tools business will continue to build on the strong heritage and proud tradition of Diamant Boart in the global stone industry, while leveraging on Husqvarna's dynamic innovativeness and being part of one of the world's leading producers of diamond tools. "Many customers already know us as part of the Husqvarna Group, and everything will remain the same except for the brand. We are convinced this will bring benefits for our customers and the stone industry at large, as we can focus our efforts on one strong brand," says Pierre Andary.

Husqvarna Construction is a leading producer within the light construction equipment business. The range includes machines and services for concrete sawing and drilling, concrete surfaces and floors, and remote demolition, as well as diamond tools for the construction and stone industry. Its products are sold and serviced worldwide through an extensive network of service centres and distributors covering more than 70 countries.

anchor holes in a serial way for bigger projects (such as tunnels, data centres, roadworks, rail works, etc). Currently Hilti is testing the equipment on different customer jobsites. However, Hilti have already a few similar tools running on different sites.

FS250



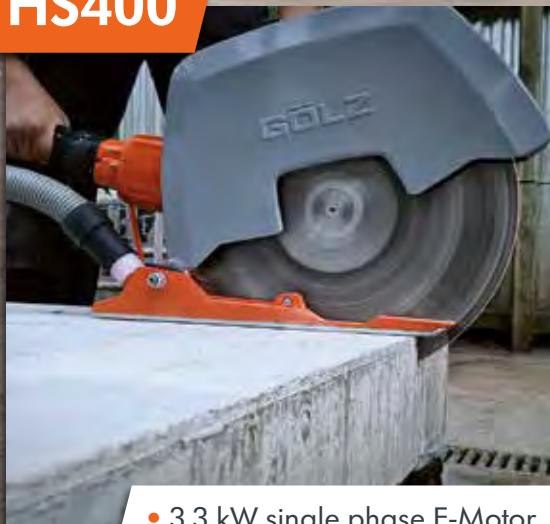
- Honda or Hatz Diesel
- Ø 800 mm diamond blade
- 310 mm cutting depth

FS30E



- 7,5 kW/11 kW 3-phase E-Motor
- Ø 800 mm diamond blade
- 320 mm cutting depth

HS400



- 3.3 kW single phase E-Motor
- Ø 400 mm diamond blade
- 160 mm cutting depth

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