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DEMOLITION &

d&ri

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KHL OFFICES

UNITED KINGDOM (HEAD OFFICE)

Southfields, Southview Road,
Wadhurst, East Sussex TN5 6TP, UK.
Tel: +44 (0)1892 784088
Fax: +44 (0)1892 784086
www.khl.com

USA OFFICE

KHL Group Americas LLC
3726 E. Ember Glow Way,
Phoenix, AZ 85050, USA.
Tel: +1 480 659 0578
e-mail: trevor.pease@khl.com

SOUTH AMERICA OFFICE

KHL Group Américas LLC
Manquehue Norte 151, of 1108. Las Condes
Santiago, Chile
Tel: +56 2 2885 0321
e-mail: cristian.peters@khl.com

CHINA OFFICE

KHL Group China
Room 768, Poly Plaza, No. 14, South Dong Zhi
Men Street, Dong Cheng District,
Beijing 100027, P.R. China
Tel: +86 (0)10 6553 6676
e-mail: cathy.yao@khl.com

EDITORIAL

EDITOR:

Steve Ducker, UK Head Office
Tel: +44 (0)1892 786210
e-mail: steve.ducker@khl.com
Twitter: @KHL_DRI

SPECIALIST WRITERS:

Lindsey Anderson, Alex Dahm, Sandy Guthrie,
Mike Hayes, Joe Malone, Cristián Peters,
Murray Pollak, D. Ann Shiffler, Euan Youdale

EDITORIAL DIRECTOR:

Paul Marsden

PUBLISHER:

James King

SALES

SALES MANAGER and UK/BENELUX:

Lynn Collett, UK Head Office
Tel: +44 (0)1892 786219
e-mail: lynn.collett@khl.com

CHINA: Cathy Yao

Tel: +86 10 6553 6676
e-mail: cathy.yao@khl.com

FRANCE: Hamilton Pearman

Tel: +33 1 45 93 08 58
e-mail: hpearman@wanadoo.fr

ITALY: Fabio Potestà

Tel: +39 010 570 4948
e-mail: info@mediapointsrl.it

JAPAN: Michihiro Kawahara

Tel: +81 (0)3 3212 3671
e-mail: kawahara@rayden.jp

KOREA: CH Park

Tel: +82 2 730 1234
e-mail: mci@unitel.co.kr

NETHERLANDS: Bridget Leary

Tel: +44 (0)1892 786220
e-mail: bridget.leary@khl.com

NORDIC COUNTRIES: Peter Gilmore

Tel: +44 (0)20 7834 5559
e-mail: pggilmores@aol.com

SPAIN: Mike Posener

Tel: +353 86 043 1219
e-mail: mike.posener@khl.com

TURKEY: Emre Apa

Tel: +90 (0)532 324 36 16
e-mail: emre.apa@apayayincilik.com.tr

SWITZERLAND/GERMANY/AUSTRIA:

Simon Battersby
Tel: +44 (0)1892 786232
e-mail: simon.battersby@khl.com

USA/CANADA:

Matt Burk

Tel: +1 312 496 3314
e-mail: matt.burk@khl.com

Wil Holloway

Tel: +1 312 929 2563
e-mail: wil.holloway@khl.com

Thomas Kavooras

Tel: +1 312 929 3478
e-mail: thomas.kavooras@khl.com

Alister Williams

Tel: +1 312 860 6775
e-mail: alister.williams@khl.com

CLASSIFIED SALES: Julia Bossie

Tel: +44 (0)1892 786204
e-mail: julia.bossie@khl.com

VP GLOBAL SALES: Trevor Pease

e-mail: trevor.pease@khl.com

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The major United Kingdom construction show of this year, organised by the Construction Equipment Association, takes place at Bruntingthorpe in the English midlands from June 6 to 8. We look ahead to the event and preview some of the companies who will be present at an exhibition established as recently as 2013 but which is continuing to grow in terms of both exhibitor and visitor numbers

DEMOLITION PORTFOLIO

DIRECTORY



SPECIAL REPORT



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TOPLIST



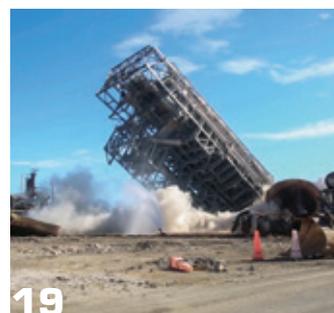
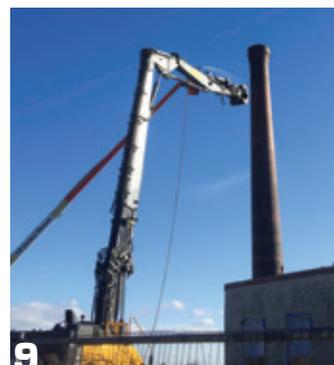
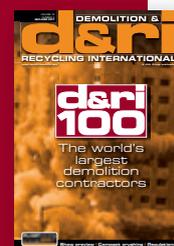
EVENTS



www.demolitionsummit.com

ON THE COVER

No May-June issue of the magazine would be complete without the **d&ri100** listing of demolition contractors, and this year is no exception. The full table starts on page 9



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MEMBER OF



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DEMOLITION BITS

■ The city administration of Rawalpindi, Pakistan, has sent eviction notices to the owners of up to 400 unsafe buildings (*Pakistan Today*)

■ Qatar's Ministry of Municipality and Environment's demolition committee has issued 13 demolition orders in four months (*Gulf Times*)

■ The former Sheerness steelworks in Kent, United Kingdom is being demolished and will become a giant car park for imported vehicles (*Kent Messenger*)

■ Demolition resumed at two illegal resorts on Phu Thap Boek mountain in Thailand's Phetchabun province (*Bangkok Post*)

■ Landmark mid-19th century Green House in Sliema, Malta, has been targeted for demolition, to the concern of local heritage groups (*Times of Malta*)

■ Over 20 houses in Lismire, Ireland, are still standing a year after demolition plans were announced (*Irish Examiner*)

■ The US Special Inspector General for the Troubled Asset Relief Program is questioning rising costs of demolishing Cleveland homes (*NewsNet5, Ohio*)

■ Breakthrough Group was fined A\$65,000 (US\$48,000) for incorrectly disposing of waste materials after demolishing Department of Defence housing in Darwin (*ABC Online*)

McMahon thinks big

Australian construction services company McMahon Services has combined a 400 t Komatsu excavator with a demolition shear that can pierce through 80 mm (3 in) high grade steel with a cutting force of 5,500 psi (380 bar).

The result is an A\$ 5 million (US\$3.77 million) machine.

Commissioning took place at McMahon's Adelaide facility, with a team of specialist mechanical engineers and hydraulic experts spending two months getting the machine ready for its first demolition job at a major iron ore facility in Port Headland, Western Australia.

After that, it will return to South Australia and continue its work at the Port Augusta Power Station, where it is earmarked for mechanical demolition, scrap processing and recycling work.



Experts at McMahon's Adelaide facility spent two months commissioning the machine before its first job at a major iron ore facility in Western Australia

McMahon said the addition of this machine to its fleet of high performance demolition

excavators consolidates its position as one of Australia's leading demolition companies. ■

Dust Control changes its name to expand its focus

A global leader in dust and odour control has announced a company name change in recognition of its expanded portfolio.

After pioneering atomised mist dust control cannons more than 10 years ago with its powerful DustBoss designs, USA-based Dust Control Technology has been renamed BossTek to better reflect its range of product lines. These include OdorBoss odour suppression technology, with its range of environmentally safe topical and airborne odour treatment agents, and the KoolBoss crowd cooling technology for large outdoor events.

Company president Laura Stiverson said the expansion into other aspects of industrial air quality was the result of repeated enquiries from customers. BossTek serves numerous industries including demolition and bulk materials handling.

"Over time, we began to realise that we were not simply a supplier of dust suppression equipment, but rather a solutions provider with the expertise to address a much wider range of applications," she said.

"These new segments of our business are growing far beyond our initial expectations, and our updated company name more accurately reflects our commitment to the expanding needs of our customers.

"We're passionate about providing long-lasting equipment that helps customers exceed regulatory compliance, enhance environmental stewardship and improve safety, both in the workplace and in the community," added Laura. ■



DustBoss equipment has been a global leader in dust suppression for more than a decade.

Italy-based MB Crusher has demonstrated its range of 12 crusher bucket models in Namibia alongside local dealer Hyundai Machinery Namibia (HMN).

Items on show included the BF90.3, which is suitable for excavators weighing up to 21 t, together with the MB-S18 screening bucket for large excavators and the MBOG1500 grapple.

The demonstration took place in April in Swakopmund City, western Namibia.

HMN is the official Hyundai dealer for machinery in Namibia, offering products such as excavators and backhoe loaders to the local market as well as parts and service.



Growth at Volvo CE as opening quarter sales soar

Volvo Construction Equipment has posted an increase in sales of 30% in the first quarter of 2017.

Sales to the end of March topped SEK 16 billion (US\$1.81 billion), compared to SEK 12.45 billion (US\$1.41 billion) for the same period in 2016.

Operating income also increased by SEK 341 million (\$38.7 million) to SEK 1.62 billion (\$183.5 million), with an operating margin of 10% against 2.7% a year earlier.

Improving market conditions in most regions helped the company report strong growth in profitability, order intake and deliveries as well as sales.

Elsewhere, Caterpillar has revised its financial outlook upwards after recording higher year on year quarterly sales for the first time in nearly three years.

The latest figures, together with what Caterpillar describes as "outstanding operational performance" during the quarter, led the company to project an end of year figure between \$38 and \$41 billion. This is \$2 million higher than its previous outlook figure.

North America remains its biggest single market.

Crane expert set to join WDS speakers

Demolition & Recycling International is delighted to announce that a ninth speaker has been confirmed for the World Demolition Summit, which takes place in London on Thursday November 2.

Teddy Holt of Radius Crane Management is the latest name to be added to the programme, which now has only the keynote speaker yet to be announced.

The paper will focus on the operational challenges of using tower cranes in demolition, and completes a high quality line up which reads as follows:

■ Global demolition equipment market of the future

Rupert Craven

Ritchie Bros

■ Demolition of Nipigon Bridge

Ryan Priestly

Priestly Demolition

■ Demolishing a five-storey mill complex

Scott Knightly

Envirovantage

■ Safety aspects of demolishing an iconic venue

Duncan Rudall

Rye Demolition

■ Developments in soil remediation

Eirik Wraal, AF Decom

■ Bringing demolition, waste and logistics closer together

Jacqueline O'Donovan

O'Donovan Waste Disposal

■ Crisis management - responding to major incidents

James Howard

Coleman Group

■ Demolition and debris management in Syria

Martin Bjerregaard

Disaster Waste Recovery.

For more World Demolition

Summit news, including the upcoming deadline for World Demolition Awards entries, please see page 47 of this issue. And you can stay up to date with announcements in the fortnightly *D&Ri* e-newsletter ■

FROM THE ARCHIVES

■ The March-April 2013 issue of *D&Ri* featured a Bauma preview, and the front cover depicted a product set to be launched at the event, Avant Tecno's Robot 185. The explosive demolition feature reported on projects featuring joint World Demolition Award winning firms Precision Demolition and Safedem. The site report was from the NGA Newmarket alliance's removal of a viaduct in New Zealand.

New chapter opens for Earl's Court project

The demolition of the former Earl's Court exhibition centres site in London, United Kingdom, has moved on a stage with a 4,300 t ALE AL SK 90 crane being used to take away more than 60 concrete portal beams weighing up to 1,500 t each.

Contractor Keltbray has won World Demolition Awards in two different categories in recent years for its part in taking down the exhibition halls.

Now the area is being cleared ahead of a programme to build almost 8,000 new homes along with parkland and other community facilities.

The development, a partnership between the public and private sectors, is the largest of its kind and will be completed by the end of the year.

Keltbray technical manager Dave Rowe said: "Having looked at various methodologies, we looked at options more globally and came across the AL SK 90. By using this crane and lifting method, disruption is minimised and the crane's high capacity and precision lifting technology will reduce the timescale considerably."



The 4,300 t ALE crane on site at Earl's Court

Designed for lifting ultra-heavy loads, the crane reaches 120 m (393 ft) when fully extended, or more than double the height of the famous London landmark Nelson's Column.

The massive portal beams – even the smallest of them weighs in at 80 t – once supported the exhibition centres above part of the London Underground network, which is still operational.

As a result, lifting can only take place overnight after the final train has left, giving a limited window for removal.

Anyone interested in seeing the crane up close, and learning more about the development in general, can visit the Earl's Court Project Rooms when developer Capital and Counties Projects opens them to the public on the second Saturday of each month. ■



DIARY DATES

2017**Plantworx 2017**

June 6 – 8
Bruntingthorpe,
United Kingdom
www.plantworx.co.uk

Intermat ASEAN

June 8 – 10
Bangkok, Thailand
<http://asean.intermatconstruction.com>

EDA General Assembly

June 14
Brussels, Belgium
www.europeandemolition.org

DDR Forum & Expo 2017

June 14 – 16
Brussels, Belgium
www.ddrexpo.com

Demo Expo 2017

June 22 – 24
Redbourn, United Kingdom
<http://demoexpo2017.com>

Steinexpo

August 30 – September 2
Homburg, Germany
www.steinexpo.eu

BICES

September 20 – 23
Beijing, China
www.e-bices.org

World Demolition Summit

November 2
London, United Kingdom
www.demolitionsummit.com

2018**Demolition 2018**

February 22 – 24
Austin, Texas, USA
www.demolitionassociation.com

Intermat 2018

April 23 – 28
paris.intermatconstruction.com

Hillhead 2018

June 26 – 28
Buxton, United Kingdom
www.hillhead.com

Bauma China

November 27 – 30
Shanghai, China
www.bauma-china.com

High level changes at Metso and Wacker

Finland-based Metso has appointed Nico Delvaux as its next president and CEO, replacing Matti Kähkönen who has held the role for six years.

Currently senior executive vice president for Atlas Copco and business area president for Compressor Technique, the Belgian is expected to join the €2.6 billion (US\$2.8 billion) turnover company by November.

In doing so he will end an association with Atlas Copco dating back to 1991, during which he has worked in Europe, North America and China.

Mikael Lilius, chairman of Metso's board of directors, said: "This nomination is part of our successor planning and the timing is good for us to progress into the next development phase."

"I am convinced that Nico Delvaux is the right person to further accelerate value creation for Metso's customers and shareholders, thanks to his broad international experience, leadership skills and a proven track record in developing leading businesses."



Nico Delvaux

Metso's products range from aggregates processing equipment to industrial controls. It employs over 11,000 people in more than 50 countries.

Meanwhile Cem Peksaglam, CEO of Germany-based compact equipment manufacturer Wacker Neuson, has told the company he is not renewing his contract when it expires in August.

A statement from the company said that "following the successful realignment of the



Cem Peksaglam

Group's strategy...he has decided to pursue new endeavours."

He has been CEO of the company – which had revenues of €1.36 billion (US\$1.5 billion) in 2016 – since September 2011.

In that time the company has experienced strong international growth, opening new plants in Brazil, China and the USA and doubling its share value.

The company said that it will be announcing a successor to Cem Peksaglam in due course. ■

JCB homes in on recycling

Making its first European appearance on JCB's recent Waste Day at its headquarters in Staffordshire, United Kingdom, the Hydradig Wastemaster has been launched into the growing compact wheeled machine sector of the waste and recycling market.

David Banks, sales manager for waste and recycling said: "With safety of paramount

importance, the Wastemaster features a cab guard Falling Object Protection System (FOPS).

"This fully protects operators while they enjoy the benefits afforded by the cab's exceptional all round visibility.

"From ground level, the Hydradig's all-round visibility also allows ground staff to see the operator at all times. In

addition its white noise reversing alarm and red and white chevrons improve site safety over conventional excavators."

The JCB Hydradig Wastemaster has an all-wheel drive, four-wheel steer chassis, based on the company's Loadall telescopic handler concept.

This delivers three-mode steering for maximum manoeuvrability and stability when travelling at speed.

Power comes from JCB's Tier 4 Final diesel engines, capable of delivering 81kW (108hp) and low rpm torque.

The engine achieves the Tier 4 Final emission levels without a diesel particulate filter.

The upper structure has a reduced tailswing of 120 mm (4 in), allowing the machine to work on the most confined waste and recycling sites.

The JCB Hydradig Wastemaster will be supplied as standard with a five-year LiveLink telematics contract. ■



The Hydradig Wastemaster has been launched with the compact wheeled sector of waste and recycling in mind



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In general, this year's **dsri100** shows a market that has slightly increased in value since a year ago, but the trends are far from uniformly positive, not least in the industry's highest earning contractor.

Qualified success

The **dsri100** cast its net further and wider than ever before this year. As a result, with several new entries making their way into the listing, the global top 100 has a net worth of just over US\$6.15 billion, or around \$275 million higher than the corresponding list 12 months ago. Where the industry will be a year from now depends whether

the knock on effect generated by President Trump's declared intention to rebuild America outweighs market volatility elsewhere. It will be fascinating to watch, just as it has been during the previous year.

POSITIONS 1 TO 10

Having posted a turnover in 2015 that was more than twice that

of its nearest rival, NorthStar retaining top place was not a surprise, but a fall in revenue of more than \$80 million was, as the company experienced a softening in several markets. Second placed Keltbray, based in the south of England, continues to win awards for its work on the demolition of the Earl's Court exhibition centres in the

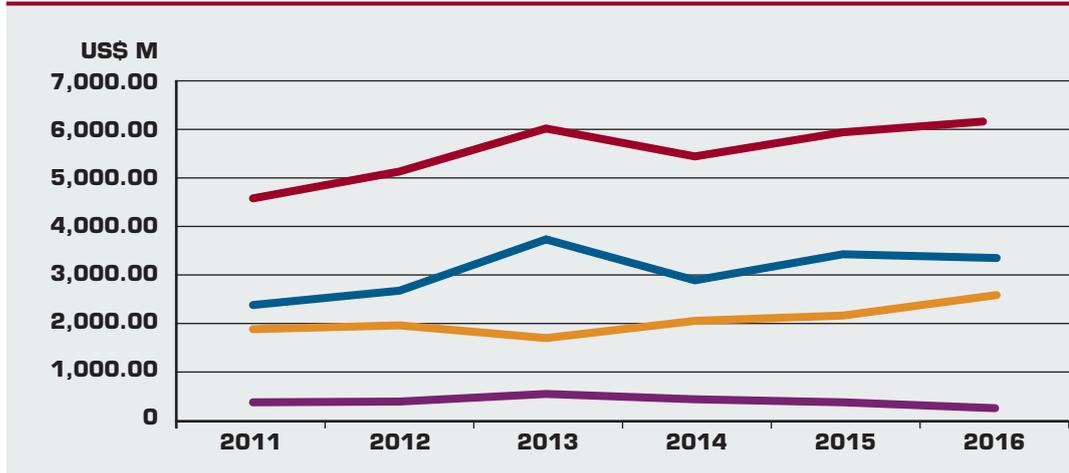
west of London. And the two major movers in the top 10 Erith Contractors (3rd) and McGee Group (5th), are also based close to London and both had notable project profiles during 2016. Erith's projects included former commercial (Stanhope Gate), industrial (Westferry Printworks) and residential (Aylesbury Estate) buildings in the UK capital, and it also undertook the lucrative demolition of the BMS pharmaceutical site in Ireland. McGee completed the demolition works at London's Southbank Place, one of the largest demolition projects to take place in the city last year. In the prestigious area of Mayfair, it dismantled the 1930s facade of MacDonald House, brick-by-brick. Meanwhile, a 180,000 t excavation by the company in Leicester Square has resulted in the delivery of London's deepest hotel basement.

POSITIONS 11 TO 20

In the southern hemisphere, McMahon Services Australia (15th) completed several projects across the country including the Nelson Point decommissioning at the BHP Billiton iron ore plant in Western Australia, Augusta power station in the

dsri 100 YEAR ON YEAR

	2012	2013	2014	2015	2016	2017
dsri100	4,675.80	5,106.10	6,033.00	5,459.27	5,875.64	6,150.76
Europe	2,371.40	2,707.60	3,772.00	2,906.32	3,319.45	3,264.38
North America	1,938.10	1,991.40	1,732.40	2,138.68	2,186.86	2,563.44
Rest of World	366.30	407.10	528.6	414.27	369.33	322.94



dsri 100 THE WORLD'S LARGEST DEMOLITION CONTRACTORS

POSITION	COMPANY NAME	LOCATION	TURNOVER (US\$ M) 2015	TURNOVER (US\$ M) 2016
1	NorthStar	New York	619.95	537.91
2	Keltbray	Esher	309.06	350.00 EST
3	Erith Contractors	Erith	183.60	234.08
4	Penhall	Anaheim	EST 185.00	200.00 EST
5	McGee Group	Wembley	153.77	192.50
6	Brandenburg Industrial Service Co	Chicago	177.10	189.00
7	Wanty SA	Binche	EST 175.00	185.00 EST
8	DH Griffin Wrecking Co	Greensboro	EST 150.00	150.00 EST
9	AF Gruppen	Oslo	178.32	145.00
10	Beelen Sloopwerken	Harderwijk	126.77	132.58



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POSITION		COMPANY NAME	LOCATION	TURNOVER (US\$ M)	TURNOVER (US\$ M)
17	(16)			2015	2016
11	10	Cherry Companies	Houston UNITED STATES	133.40	132.00
12	14	MCM Management Corporation	Bloomfield Hills UNITED STATES	107.00	116.00
13	17	Hagedorn Unternehmensgruppe	Gütersloh GERMANY	92.88	113.16
14	13	Max Wild	Berkheim GERMANY	109.65	104.55
15	20	McMahon Services	Dry Creek AUSTRALIA	79.61	96.80
16	18	Freimuth Abbruch und Recycling	Bülkau GERMANY	EST 84.00	96.00
17	NEW	Ferma Corporation	Mountain View UNITED STATES		95.30
18	26	John F Hunt	Grays UNITED KINGDOM	EST 55.00	94.03
19	16	Cardem	Bischheim FRANCE	95.39	88.56
20	NEW	Rachel Contracting	St Michael UNITED STATES		86.00
21	19	Bierlein Companies	Midland UNITED STATES	80.09	78.10
22	29	Brown and Mason	Dartford UNITED KINGDOM	50.22	72.21
23	NEW	Delsan AIM	Montréal CANADA		66.60
24	27	Cuddy Group	Llandarcy UNITED KINGDOM	EST 54.20	66.53
25	31	Manafort Brothers	Plainville UNITED STATES	EST 50.00	EST 65.00
26	21	Squibb Group	Stanford le Hope UNITED KINGDOM	70.38	61.60
27	45	DSM Demolition	Birmingham UNITED KINGDOM	36.40	58.52
28	28	Priestly Demolition	King, Ontario CANADA	52.63	58.03
29	23	Murray Demolition	Etobicoke CANADA	EST 70.00	56.10
30	47	Cantillon	Watford UNITED KINGDOM	35.96	51.59
31	44	Envirocon	Boston UNITED STATES	EST 37.90	EST 50.00
32	NEW	ETS Genier Deforge	Magny Les Hameaux FRANCE		47.83
=33	36	777 Group	Croydon UNITED KINGDOM	42.84	46.20
=33	35	TVF Altwert	Berlin GERMANY	EST 47.50	46.20
35	41	Takayama Kogyo	Tokyo JAPAN	EST 40.00	45.20
36	37	Liberty Industrial	Glebe AUSTRALIA	EST 40.00	EST 45.00
37	24	Nasdi	Woburn UNITED STATES	62.12	43.45
38	60	Coleman & Company	Birmingham UNITED KINGDOM	EST 30.00	43.43

TOP 20 COMPANIES IN THE AMERICAS

POSITION		COMPANY NAME	LOCATION	TURNOVER (US\$) 2016
17	(16)			
1	1	North Star	UNITED STATES	537.91
2	2	Penhall	UNITED STATES	EST 200.00
3	3	Brandenburg Industrial Service Co	UNITED STATES	189.00
4	4	DH Griffin Wrecking Co	UNITED STATES	EST 150.00
5	5	Cherry Companies	UNITED STATES	132.00
6	6	MCM Management Corporation	UNITED STATES	116.00
7	NEW	Ferma Corporation	UNITED STATES	95.30
8	NEW	Rachel Contracting	UNITED STATES	86.00
9	8	Bierlein Companies	UNITED STATES	78.10
10	NEW	Delsan AIM	CANADA	66.60
11	12	Manafort Brothers	UNITED STATES	EST 65.00
12	11	Priestly Demolition	CANADA	58.03
13	NEW	Murray Demolition	CANADA	56.10
14	15	Envirocon	UNITED STATES	EST 50.00
15	10	Nasdi	UNITED STATES	43.45
16	NEW	ARC Abatement	UNITED STATES	40.15
17	13	Adamo Group	UNITED STATES	40.00
18	14	North American Dismantling Corp	UNITED STATES	38.90
19	16	O'Rourke Wrecking Company	UNITED STATES	34.25
20	NEW	American Demolition Corporation	UNITED STATES	33.65
				2110.44

south, a decommissioning and decontamination project for Alcoa in New South Wales and phase one of the TCC removals project at Exxon Mobil in Victoria. In addition, the company made significant fleet investment including the Komatsu PC4000 with Genesis 2555R heavy duty long reach shear, Komatsu PC850 and hammer attachment, and the Sennebogen 830E. There was an impressive performance from US company Ferma Corporation (17th). Ferma's projects over the years included demolishing the 84,000-seat Stanford Stadium in Palo Alto, California – one of the venues at the 1994 World Cup football competition – all in the space of two weeks. Compressed time schedules were a feature of the range of projects the company has taken on, including a 1.9 km (3 mile) stretch of San Francisco road on a single weekend. For one project, which involved taking down a road over the 45 m (150 ft) high Crystal Springs

>12

POSITION		COMPANY NAME	LOCATION	TURNOVER (US\$ M) 2015	TURNOVER (US\$ M) 2016
17	(16)				
39	42	R Collard	Hook UNITED KINGDOM	39.78	43.12
40	50	Ferraro Group	Neunkirchen GERMANY	34.60	41.70
41	32	Nabekai Corporation	Tokyo JAPAN	EST 50.00	40.50
42	NEW	Hughes and Salvidge	Portsmouth UNITED KINGDOM		40.35
43	NEW	ARC Abatement	Waco UNITED STATES		40.15
44	34	Adamo Group	Detroit UNITED STATES	48.00	40.00
45	38	North American Dismantling Corp	Lapeer UNITED STATES	EST 40.00	38.90
46	71	TE Scudder	London UNITED KINGDOM	EST 26.00	38.25
47	49	Raz-Max	St Petersburg RUSSIA	EST 34.70	38.00
48	NEW	Kling	Ellenberg GERMANY		37.50
49	NEW	Excavaciones Viuda de Sainz	Zierbena SPAIN		EST 37.00
50	39	Prangenberg & Zaum	Dusseldorf GERMANY	EST 40.00	36.14
51	46	Avenir Deconstruction	Artigues FRANCE	36.21	35.29
52	56	Thompsons of Prudhoe	Prudhoe UNITED KINGDOM	31.83	34.50
53	51	O'Rourke Wrecking Company	Cincinnati UNITED STATES	33.50	34.25
54	NEW	PP O'Connor	Manchester UNITED KINGDOM		33.88
55	NEW	American Demolition Corporation	Elgin UNITED STATES		33.65
56	54	Moß Abbruch Erdbau Recycling	Lingen GERMANY	32.12	33.46
57	57	DDM	De Meern NETHERLANDS	31.80	33.45
58	NEW	Cox Inc	Richmond UNITED STATES		33.19

dam in San Mateo, the company converted its machines to run on peanut oil, avoiding the danger of a hydraulic spill into the water, and its recycling rate on projects is regularly above 99%.

POSITIONS 21 TO 50

Delsan AIM (23rd), which provides decommissioning

and demolition services to institutional, governmental and commercial clients, completed a diverse range of projects during 2015-16. These included Mirabel Airport (on behalf of Aéroports de Montréal), a five-level 23 m (75 ft) high concrete and steel-framed structure with an overall footprint of 32,330 sq m

(348,000 sq ft). The company was responsible for the project to demolish the Grand Falls paper mill in Newfoundland, which had operated for 100 years until its closure in 2009, while it also provided demolition and civil engineering services to the C\$3.7 billion (US\$2.7 billion) CN Tunnel replacement project

in Quebec, and demolition and recycling for the Bruce nuclear generation station in Ontario.

United Kingdom-based DSM Demolition (27th) has continued to progress, its most significant project being the deconstruction of several buildings as part of the £500 million (\$650 million) regeneration of Birmingham city centre. At the end of the year, the company executed the ultra high reach demolition of the 17-storey Grosvenor House hotel in Sheffield in the north of England. In terms of its fleet, DSM's policy has been to replace anything more than three years old, which resulted in a total investment of £4.5 million (\$6 million) in 2016.

DSM was the subject of a management buy out in April 2017, merging with brownfield developer St Francis Group in a deal backed by Metric Capital Partners.

For Hughes and Salvidge (42nd), based in the south of England, 2016 was a buoyant year. Flagship projects at Ford Motor Company in Southampton, Castle Markets in Sheffield, and Versalis Chemical Plant in Hythe helped the company increase turnover significantly from 2015.

It also invested in new, low emission Hitachi plant to boost its fleet and continue to be as environmentally friendly as possible, an approach that

TOP 20 COMPANIES IN EUROPE

POSITION		COMPANY NAME	LOCATION	TURNOVER (US\$M) 2016
17	(16)			
1	1	Keltbray	UNITED KINGDOM	EST 350.00
2	2	Erith Contractors	UNITED KINGDOM	234.08
3	5	McGee Group	UNITED KINGDOM	192.50
4	4	Wanty SA	BELGIUM	EST 185.00
5	3	AF Gruppen	NORWAY	145.00
6	6	Beelen Sloopwerken	NETHERLANDS	132.58
7	10	Hagedorn Unternehmensgruppe	GERMANY	113.16
8	8	Max Wild	GERMANY	104.55
9	11	Freimuth Abbruch und Recycling	GERMANY	96.00
10	15	John F Hunt	UNITED KINGDOM	94.03
11	9	Cardem	FRANCE	88.56
12	17	Brown and Mason	UNITED KINGDOM	72.21
13	16	Cuddy Group	UNITED KINGDOM	66.53
14	12	Squibb Group	UNITED KINGDOM	61.60
15	NEW	DSM Demolition	UNITED KINGDOM	58.52
16	NEW	Cantillon	UNITED KINGDOM	51.59
17	NEW	ETS Genier Deforge	FRANCE	47.83
=18	NEW	777 Group	UNITED KINGDOM	46.20
=18	20	TVF Altwert	GERMANY	46.20
20	NEW	Coleman & Company	UNITED KINGDOM	43.43
				2229.57

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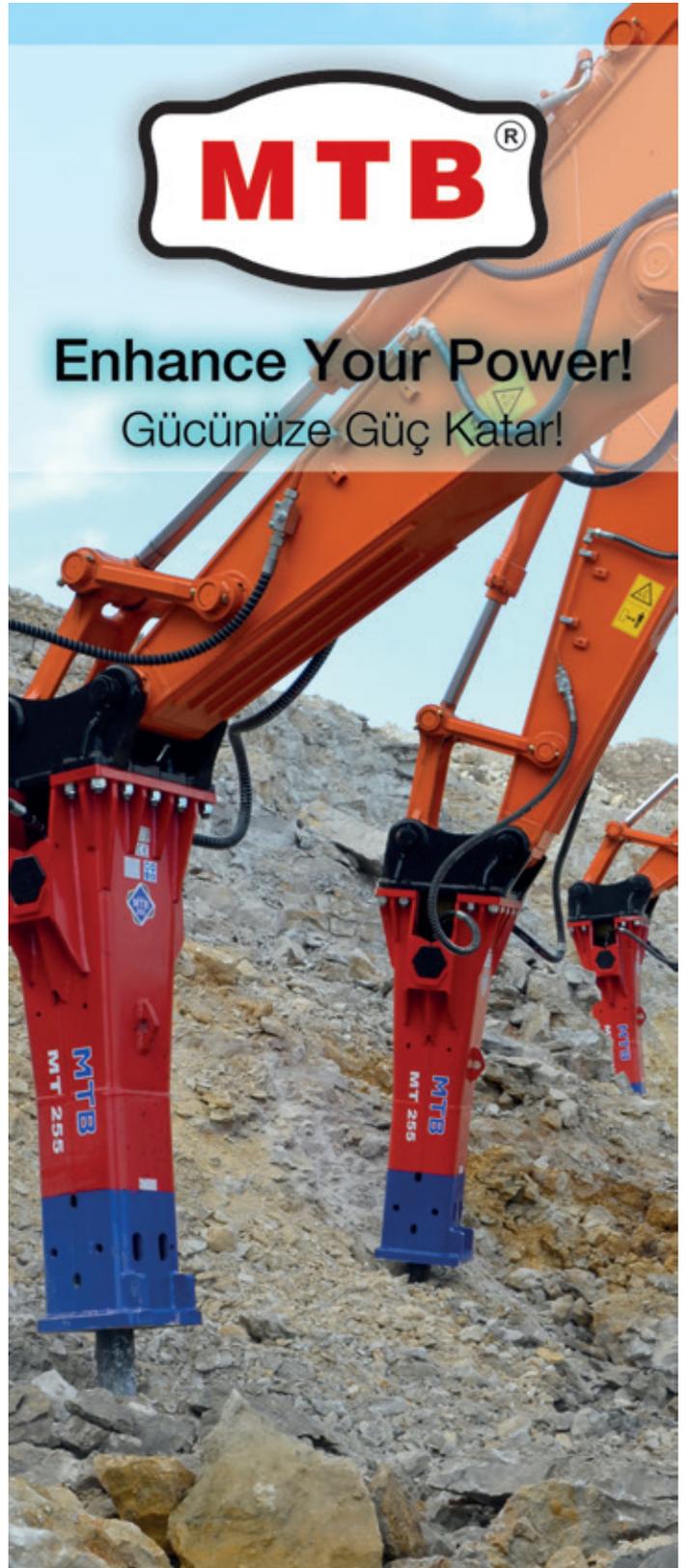
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POSITION	COMPANY NAME	LOCATION	TURNOVER (US\$ M) 2015	TURNOVER (US\$ M) 2016
17 (16)				
59 69	Occamat	Noyant FRANCE	EST 27.00	EST 32.00
60 59	Central Environmental Inc	Anchorage UNITED STATES	30.20	31.90
61 NEW	Dickens Quality Demolition	Phoenix UNITED STATES		31.86
62 67	Syd Bishop	Orpington UNITED KINGDOM	27.48	31.31
63 NEW	AWR Abbruch	Urmitz GERMANY		31.17
64 15	Independence Excavating	Independence UNITED STATES	EST 100.00	31.00
65 NEW	Kroeker Inc	Fresno UNITED STATES		30.69
66 NEW	Concrete Cutting and Breaking	Grand Rapids UNITED STATES		30.21
67 NEW	Evans Brothers	Livermore UNITED STATES		29.81
68 =73	F&R Industriedemontage und Abbruch	Neukirchen GERMANY	EST 25.00	29.50
69 NEW	Testa Corp	Wakefield UNITED STATES		29.40
70 30	General Smontaggi	San Pietro Mosezzo ITALY	EST 50.00	29.13
71 NEW	American Wrecking	South El Monte UNITED STATES		28.97
72 63	KDC Contractors	Manchester UNITED KINGDOM	29.22	28.66
73 64	Eurco	Vinkovci CROATIA	29.08	EST 28.41
74 NEW	Homrich Wrecking	Carleton UNITED STATES		28.30
75 68	Wooldridge Ecotec	Bagshot UNITED KINGDOM	27.18	27.36
76 52	Despe	Torre de Roveri ITALY	33.30	27.06
77 =73	Owen Pugh	Cramlington UNITED KINGDOM	EST 25.00	EST 27.00
78 NEW	Sabre Demolition	Warners UNITED STATES		26.06
79 NEW	Sauer Bau und Projektentwicklung	Starnberg GERMANY		25.22
80 NEW	Cawarden Group	Derby UNITED KINGDOM		24.95
81 62	Matsuda City Development	Fukuoka JAPAN	EST 30.00	24.80
82 80	Boverhoff	Heerde NETHERLANDS	22.88	24.75

TOP 10 PERCENTAGE REVENUE INCREASE

POSITION	COMPANY NAME	LOCATION	PERCENTAGE INCREASE
1	DSM Demolition	UNITED KINGDOM	60.8%
2	Brown and Mason	UNITED KINGDOM	43.8%
3	Cantillon	UNITED KINGDOM	43.5%
4	Erith Contractors	UNITED KINGDOM	27.5%
5	Van Vliet Demolition	NETHERLANDS	27.1%
6	McGee Group	UNITED KINGDOM	25.2%
7	Hagedorn Unternehmensgruppe	GERMANY	21.8%
8	McMahon Services	AUSTRALIA	21.6%
9	Ferraro Group	GERMANY	20.5%
10	F&R Industriedemontage und Abbruch	GERMANY	18.0%

TOP 10 INCREASE IN TURNOVER US\$

POSITION	COMPANY NAME	LOCATION	TURNOVER INCREASE (US\$ M)
1	Erith Contractors	UNITED KINGDOM	50.48
2	McGee Group	UNITED KINGDOM	38.73
3	DSM Demolition	UNITED KINGDOM	22.12
4	Brown and Mason	UNITED KINGDOM	21.99
5	Hagedorn Unternehmensgruppe	GERMANY	20.28
6	McMahon Services	AUSTRALIA	17.19
7	Cantillon	UNITED KINGDOM	15.63
8	Freimuth Abbruch und Recycling	GERMANY	12.00
9	Brandenburg Industrial Service Co	UNITED STATES	11.90
10	MCM Management Corporation	UNITED STATES	9.00

Excludes new entries and estimated totals

was rewarded with a Recycling and Environmental World Demolition Award and continued Carbon Trust certification.

POSITIONS 51 TO 75

PP O'Connor (54th) has worked on major demolition and dismantling projects such as Faraday Building Manchester University, PVC 8/VDC 4 Plant Runcorn, Shot Tower Chester, Liverpool Lime Street, LCC Lodge and Merseylink Bridges.

It operates a full range of fully maintained high-tech plant and machinery ranging from a 1 t excavator to the Cat 349 high reach and Hitachi 870, and continues to invest and research in plant and equipment to acquire the most economically viable state-of-the-art machinery.

Dutch company DDM (57th) specialises in dismantling, relocation and demolition projects in the heavy industry, power generation and petrochemical industries in Europe and worldwide.

DDM has recently invested heavily in a new energy efficient fleet with lifting cranes, high-reach machines with scrap shears and sorting grapples. It uses

>16

POSITION	COMPANY NAME	LOCATION	TURNOVER (US\$ M)	
			2015	2016
17 ⁽¹⁶⁾				
83 ⁶⁶	Sungdo Construction	Seoul SOUTH KOREA	28.40	24.54
84 ⁼⁸⁸	Enterprise Ferrari	Wittlesheim FRANCE	EST 18.50	EST 24.50
85 ⁼⁸¹	Uchimura Kogyo	Tokyo JAPAN	EST 20.00	24.20
86 NEW	Pece of Mind	Orlando UNITED STATES		23.87
87 ⁼⁹⁵	Potts & Callahan	Baltimore UNITED STATES	EST 16.00	22.40
88 ⁶¹	Marutone Apex	Tokyo JAPAN	EST 30.00	21.90
89 ⁶⁵	Johannes Landwehr Abbruchunternehmen	Clarholz GERMANY	28.80	21.56
90 ⁷⁹	Vlasman Betonbewerkings	Alphen aan den Rijn NETHERLANDS	23.82	21.46
91 ⁵⁸	Armac Group	Solihull UNITED KINGDOM	30.60	21.40
92 ⁸⁶	MGL Demolition	Durham UNITED KINGDOM	19.89	20.76
93 NEW	EnviroVantage	Epping UNITED STATES		20.00
94 NEW	Wring Group	Bristol UNITED KINGDOM		19.71
95 ⁹⁹	Van Vliet Demolition	Gorinchem NETHERLANDS	15.48	19.68
96 ⁸⁷	Costello Dismantling	West Wareham UNITED STATES	19.80	19.34
97 ⁹²	Central Demolition	Bonnybridge UNITED KINGDOM	17.60	18.48
98 ⁹³	Plannerer	Pullenreuth GERMANY	16.90	18.10
⁼⁹⁹ ⁼⁸¹	Break Thru Enterprises	Lombard UNITED STATES	EST 20.00	EST 18.00
⁼⁹⁹ ⁼⁸¹	R Baker & Son	Marlboro UNITED STATES	20.00	18.00
			6150.76	

Extra information

Many of the companies featured in the **d&ri 100** have supplied videos and/or photographs of projects they have been involved in. To see these, please visit <http://www.khl.com/dri100>

Currency conversion

Exchange rates used to convert to US dollars are from a rolling five-year average between 2012 and 2016.

Sourcing the data

D&Ri invites and welcomes all demolition contractors worldwide to supply turnover data for the **d&ri 100** and the vast majority of the figures quoted are sourced by that method. Others are made up of reasonable estimates derived from company or financial websites or other online coverage of the demolition industry.

If you are not included

To receive an entry form for the 2018 **d&ri 100**, please email steve.ducker@khl.com

3D modelling and animating are used for the engineering of complex projects.

POSITIONS 76 TO 100

Cawarden (80th) continued to expand in 2016 following a successful 2015. The year saw Cawarden's continued commitment to investment adding more than £1 million (\$1.3 million) of machinery

including a new Liebherr R936 crawler excavator.

Key projects included clearing the former Derby Royal Infirmary, demolition and alteration works at the Mander shopping centre, Newark Academy school, Dayncourt school, and Hinckley Leisure Centre.

Cawarden also invested more than £40,000 (\$52,000) in training for its personnel, including a number of younger employees.

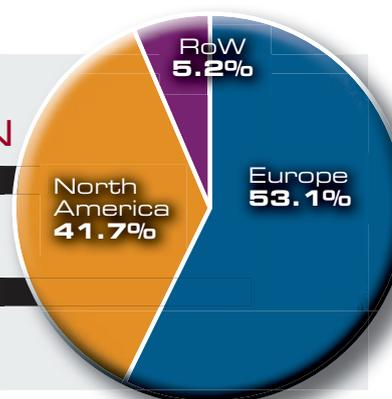
Envirovantage (93rd), based in the New England area of the USA, has successfully participated in many of the region's landmark projects, including Boston's North Church, Harvard's Sackler Museum, Dartmouth College and numerous military and government installations.

New entry the Wring Group (94th) completed several prestigious projects in the United Kingdom, as well as in Bahrain and the United Arab Emirates, as well as making an investment of around £2 million (\$2.6 million) in new workshops, crushing and screening plant, and machinery attachments.

REGIONAL BREAKDOWN

2016
Total Revenue
US\$ 6,150.76 M

2015
Total Revenue
US\$ 5,875.64 M



COMPANIES JUST OUTSIDE THE TOP 100

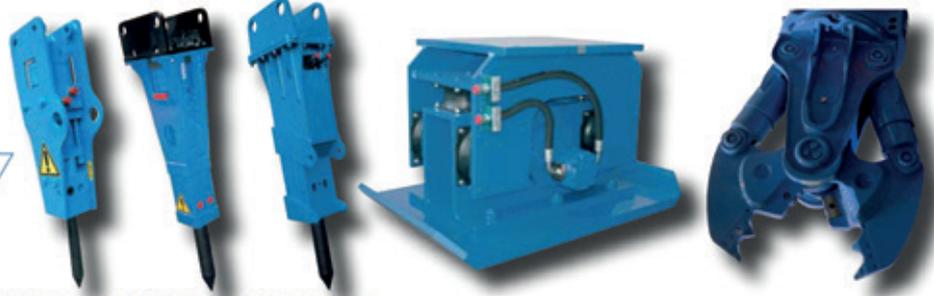
POSITION	COMPANY NAME	LOCATION	TURNOVER (US\$M)	
			2015	2016
101 ⁼⁷³	Cambria Contracting	New York UNITED STATES	EST 25.00	EST 18.00
102 ⁼⁹⁰	AS Betondemontage	Lehrte GERMANY	EST 18.00	17.22
103 NEW	Brunel Demolition	Montfermeil FRANCE		EST 17.00
104 ⁹⁴	GBM Demolition	Louth UNITED KINGDOM	EST 16.00	EST 16.79
105 NEW	Total Reclaims Demolition	Nottingham UNITED KINGDOM		EST 16.50
106 NEW	Fratelli Omini	Novate Milanese ITALY		16.43
107 NEW	Mrozek	Bystrice CZECH REPUBLIC		16.22
108 NEW	Sonny Glassbrenner	Clearwater UNITED STATES		16.19
109 ¹⁰⁰	B&B Wrecking	Cleveland UNITED STATES	15.26	15.89
110 NEW	Corbat	Flero ITALY		15.31

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The letter of the law

Demolition companies in Australia work to a government code of practice as well as the construction regulations in the Work Health Safety Act

D&Ri looks at the different legislative and regulatory requirements facing contractors across countries and continents

The United Kingdom's Health and Safety Executive says: "The law says that all demolition, dismantling and structural alteration must be carefully planned and carried out in a way that prevents danger by practitioners with the relevant skills, knowledge and experience."

It adds: "A systematic approach to demolition projects is a team effort between many people, who all have responsibilities."

The HSE identifies these people as including duty holders appointed by the client, principal designers and contractors, site manager and subcontractors.

Specific hazards include falls from height, injury from falling materials, uncontrolled collapse, risks from connected services, traffic management, hazardous materials, noise and vibration and fire.

To avoid injury from falling materials, the HSE recommends setting up clearly marked exclusion zones and hard-hat areas, covered walkways, using high-reach machines and reinforcing driver cabs. In terms of possible uncontrolled collapse, a structural survey should consider how old the building is, what it has been previously used for, how it is built, what else is nearby, and the weight of removed



material or machinery on floors above ground level. It also says that a method statement for the demolition should identify the sequence required to prevent accidental collapse.

The American Occupational Safety & Health Administration (OSHA) describes demolition as "construction in reverse, with additional hazards".

It also says: "The hazards of demolition work can be controlled and eliminated with the proper planning, the right personal protective equipment, necessary training and compliance with OSHA standards."

OSHA already applies construction standards (29 CFR Part 1926) at demolition sites, but in view of the significant hazardous nature of demolition work, it created Subpart T of the specifically for demolition operations. Its coverage includes preparatory operations – which account for 75% of citations to OSHA from demolition sites – removal of walls, floors and steel constructions, mechanical demolition and selective demolition by explosives.

The association says everyone at a demolition site must be fully aware of the hazards they may encounter and the precautions they must take to protect themselves and their employees.

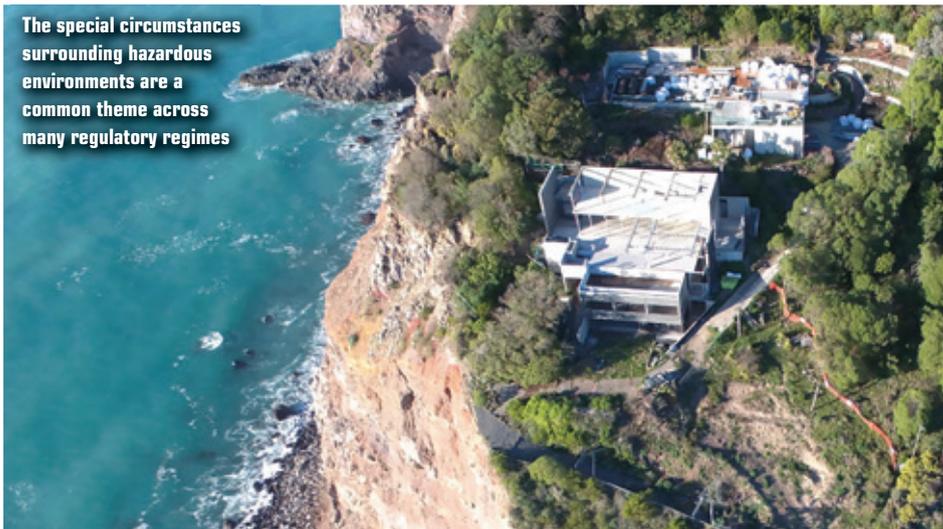
This includes a competent person completing an engineering survey before any demolition work starts, taking into account what condition the building is in and whether an unplanned collapse could take place.

PROTECTIVE EQUIPMENT

Furthermore, the employers should decide the necessary personal protective equipment (PPE) – such as head, hand, foot, respiratory and hearing protection – and train employees on its selection, maintenance and storage as well as how to use it safely.

In March 2016, OSHA created the first new standards for silica dust in the construction industry for more than 40 years, and last August it introduced a revised penalty

The special circumstances surrounding hazardous environments are a common theme across many regulatory regimes



structure with heavier financial punishments for companies committing safety errors.

Demolition in South Africa is covered in Section 14 of the country's Construction Regulations 2014. These state firstly that a contractor must appoint a competent person, in writing, to supervise and control all demolition work on site.

Then, before any work starts, there must be a detailed structural engineering survey also by a competent person of the building to be demolished, after which a method statement on the demolition procedure to be followed is produced. During the demolition process, there must be regular checks of the structural integrity of the building.

Sub-section 4 details the steps that a contractor must take to ensure the safe demolition of the building and the safety of the people working on it.

There are also sub-sections that deal specifically with buildings where asbestos is present, and the removal and disposal of waste and debris.

In addition, Part E of the National Building Regulations says that demolition can only take place with the permission of the local authority, and goes on to outline prohibited methods of demolition.

CODE OF PRACTICE

In Australia, much of the legislation relating to demolition is derived from the Work Health and Safety (WHS) Act, which has its own set of construction regulations that demolition companies have to comply with. Government agency Safe Work Australia developed a code of practice for demolition work under section 274 of the Act., which was published in

March 2015. It defines the demolition work as "to demolish or dismantle a structure or part of a structure that is load-bearing or otherwise related to the physical integrity of the structure". A structure is defined as "anything constructed, whether fixed or moveable, temporary or permanent."

Other notifiable demolition work under the regulations includes the demolition of all or part of a structure at least 6 m high (19 ft), demolition involving load shifting machinery on a suspended floor, or involving explosives.

The code also says that "a person conducting a business or undertaking has the primary duty to ensure, so far as is reasonably practicable, that workers and other persons are not exposed to health and safety risks arising from the business or undertaking". Here, this person could be a principal contractor, designer, company director or a site worker.

As well as covering demolition in general, the code describes the need for different approaches depending on whether the demolition project is manual, mechanical, induced collapse or explosive.

It concludes: "Explosives must not be used to induce the collapse of any structure unless approved by the regulatory authority. Explosives must only be used by a competent person, who is licensed in the use of explosives and has experience in the work to be undertaken.

"If explosives are used in demolition work, a licensed competent person must develop the blast management plan and be responsible for all aspects in the use of explosives in the demolition. If explosives are planned to be used in demolition work, a notification must be made to the regulator."

Two other key areas closely related to demolition are asbestos and construction and demolition (C&D) waste.

The European Union (EU) Directive on Exposure to Asbestos at Work was introduced in 2009 to clarify previous legislation, including a single limit value for airborne concentration of asbestos at 0.1 fibres per cu cm. If this is exceeded, the reasons must be identified and appropriate remedies taken – without these work may not continue.

CONSULTING WORKERS

The directive says: "Before beginning demolition or maintenance work, employers shall take, if appropriate by obtaining information from the owners of the premises, all necessary steps to identify presumed asbestos-containing materials.

"In the case of certain activities such as demolition... in respect of which it is foreseeable that the limit value ... will be exceeded despite the use of technical preventive measures for limiting asbestos in air concentrations, the employer shall determine the measures intended to ensure protection of the workers while they are engaged in such activities.

"The workers and/or their representatives in the undertaking or establishment shall be consulted on these measures before the activities concerned are carried out."

Under the directive, employers are also expected to provide appropriate training for workers on the properties of asbestos and its effect on health, and on products or materials that may contain asbestos.

C&D waste is covered under the Waste Framework Directive, which called on member states to take the required steps to reach a minimum recycling rate of 70% by weight of non-hazardous C&D waste by 2020. It has been identified as a priority waste stream by the European Union, but recycling levels vary widely between individual countries.



Contractors need to know how upcoming demolition projects will affect the neighbouring area

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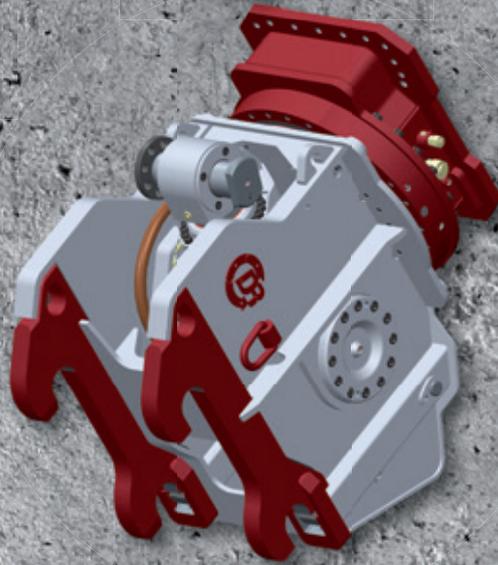
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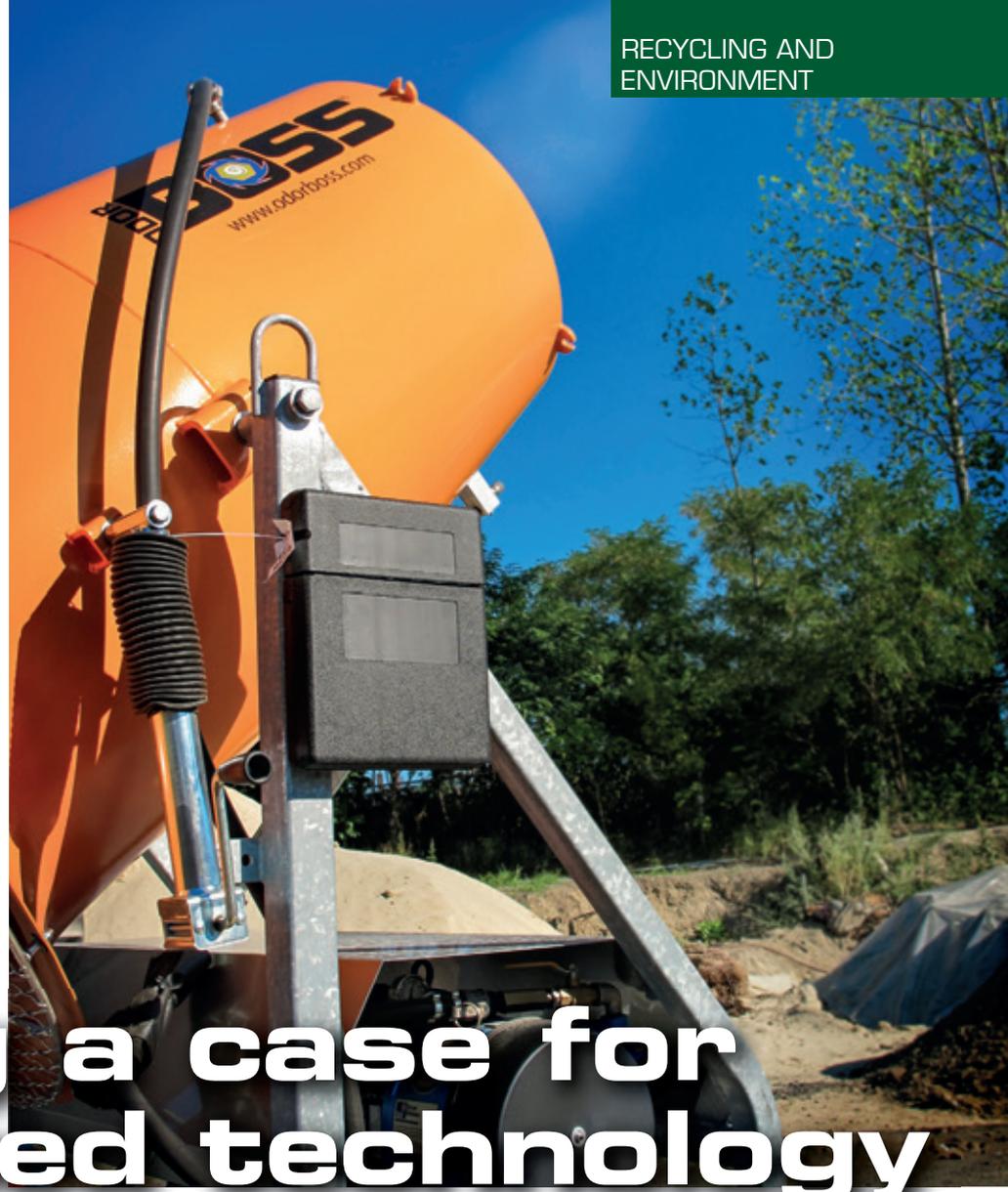


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Dust suppression is an established part of developing former industrial sites post-demolition – but what happens when the groundbreaking stage throws up issues no-one was fully expecting? The Worcester Regional Transit Authority found itself in just this position, but Dust Control Technology* was there to help.



Making a case for advanced technology

Municipalities and developers that reclaim pre-existing industrial sites for urban renewal projects routinely test for contamination from prior activities.

However, it is nearly impossible to predict the full impact of those activities until the ground is broken – which often leads to mid-project issues that can increase budgets, expand scope and stress timelines.

That was the case for an urban renewal project by the Worcester Regional Transit Authority (WRTA) in central Massachusetts, USA, involving a 14,492 sq m (156,000 sq

ft) maintenance and operations facility with a 7-acre paved lot on the 11-acre site of a manufactured gas plant that remained in operation until 1969.

On testing, TRC Companies, the national environmental consulting company based in Massachusetts, found coal tar waste had leached into the soil.

Residual waste products from manufactured gas often include contaminated water and coal tar. But after closing the old plant, rather than performing a proper clean up, the prior owner covered it in a 91 cm (3 ft) layer of

topsoil and left the site as it was. Over time, a neighbourhood grew up around the location, with a large park built across the street.

Residents considered the site a blighted area and an eyesore until the WRTA proposed to use it to house and maintain its fleet of 52 buses and 16 vans.

“Before the general contractor broke ground, the WRTA gave us a hard end date for the project,” said Chris McDermott, senior project manager for TRC.

“Any delays in remediation or construction would cause the entire region to suffer a transit service interruption, affecting thousands of residents.”

LICENSED SITE PROFESSIONAL

As the licensed site professional (LSP) on the project, TRC took the lead in permitting, overseeing and compliance, working closely with the Massachusetts Department of Environmental Protection and the local conservation commission.

“Because we detected traces of naphthalene in the soil, we included an odour control plan into the remediation strategy, but the odour emission levels are unpredictable,” said Chris.

Naphthalene – a volatile organic compound – is a derivative of coal tar, which can contain up to 50% of the substance. Commonly used in mothballs, the smell is described as acrid,

>26



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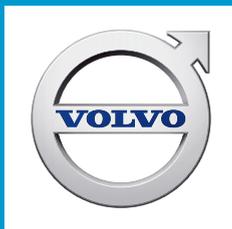
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Aggregate rewards

This year will see CDE Global complete a multi-million materials washing project in Tunisia for the glass industry with new client Smetram.

A subsidiary of the Sebri Group, Smetram has been exploiting sand quarries in Tunisia since 2001 to serve the national market, and typically the concrete and ceramic industries. This year, it invested in the production of industrial sands adapted to the specifications of the glass market in Algeria, Germany, Italy and France.

To manage the extraction of 3,000 t of sand per day, the company was looking for high tech materials washing equipment that could stand the test of time.

"We are a dynamic company with 15 years' experience in the treatment of sand and aggregates," said CEO Habib Sebri.

"Recently we reached a level of success and maturity to develop outwards and into specialised international markets by adding high quality glass sand to our offering.

"However we knew that in order to succeed, the choice of our materials washing equipment would be crucial. After thoroughly researching all the options available on the materials washing market, we opted for a CDE washing plant.

"The reasons for our decision were based on the professionalism of the CDE commercial team, the manufacturer's commitment and investment in innovation and new technologies and its use of high quality materials."

To guarantee a consistent and precise cut as well as the required production level, Smetram chose a complete turnkey washing solution including the powerful and compact M4500 sand washing plant (with high frequency Infinity screens, ShearClean dynamic attrition scrubber and spiral separators) which takes care of screening, washing, attrition, classification and recycles up to 90% of waste water.

The M4500 will be fed 200 t/hr of raw materials to produce 100 t/hr of high quality fine sand. A second installation will be commissioned at the start of 2018 on a different site, which will double Smetram's production.

The CDE M4500 – "We knew the choice of washing equipment would be crucial," said Smetram



Introducing the mist into an area downwind from the activity allows it to travel with the odour

bitter and chemical, and can be detected by humans in concentrations as small as 0.08 parts per million. In large quantities, the smell can be quite disruptive, especially to people who already find it difficult to breathe.

As part of the odour control plan, excavators worked in sections exposing the contaminated subsoil. Tests had revealed that the contamination penetrated between 10 and 15 ft (3 and 4.5 m) deep across the entire site. The estimated 85,000 t of soil extracted from the site was piled into storage mounds approximately 9 to 12 m (30 to 40 ft) high. Front loaders filled trucks and train cars that were covered to mitigate fugitive dust and odour emissions. The material was then transported to a landfill in upstate New York.

"The deeper we dug and the more soil we exposed, the worse the odour became," explained Brian Burk, field technician for TRC.

"When summer temperatures heated the soil, complaints from neighbours started coming in."

PRIMARY SOURCES

Two areas of operation on the worksite were identified as the primary sources of the smell – the exhumed zones and the storage piles. The primary method of odour control was a combination of environmentally safe chemical foam, urethane sheeting and perfume misting units.

As excavated zones were uncovered, workers sprayed foam over the exposed areas, which acted as a barrier between the contaminated soil and the open air, but did not neutralise the odour. If the area was disrupted, the smell would return and workers would have to respray. Piles that were not in the process of loading onto train cars were wrapped in urethane sheets. Individually timed perfume spray canisters were placed at the site's western fence line, intended to mask odour emissions. When warmer weather arrived TRC halted

operations and covered all exposed material with foam and/or plastic sheeting.

With the firm transition date between facilities closing in, operators sought a more sustainable solution.

TRC site managers discovered Dust Control Technology, the manufacturer of the OdorBoss range of odour suppression systems, and contacted the company for assistance.

"They delivered a unit to us on site within days," Chris said. "We were very relieved."

The three methods TRC used – trapping the smell with foam and urethane or masking it with perfumes – were unsuccessful because none eliminated the odour, they only postponed the emission or attempted to mask it by adding a different smell to it. Instead, the OB-60G introduces the OdorBoss air treatment agent solution in an engineered mist comprised of millions of tiny droplets as small as 15 microns in diameter, or approximately the size of airborne plant spores.

The special open-cylinder cannon design is mounted with the large water tank on a towable trailer with foam-filled tyres. The entire unit can be quickly positioned anywhere on the WRTA site by a single worker, using a pickup truck or other towing vehicle. The 25 HP fan generates 30,000 cu ft (850 cu m) per minute of air flow, which propels a long cone of vapour that provides expansive coverage when using the standard 180° built-in electric oscillator with a vertical angle adjustment of 0-50°.

Since incorporating the OB-60G into TRC's odour control plan, the site has not experienced downtime due to odour, and site managers are anticipating no disruptions in service for public transit customers.

"Although we still use the foam, before we disrupt any material, we turn on the OdorBoss," said Brian Burk.

"This way we can concentrate the fog on the areas creating the most significant emissions."

Chris McDermott added: "Before we implemented this solution, every morning there would be at least one odour complaint on my voicemail.

"But from the moment we turned the OdorBoss on, they stopped completely."

*This article was written before Dust Control Technology's name change to BossTek. For more details, please see page 4.

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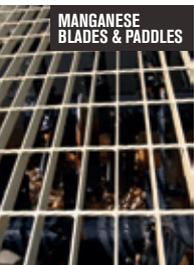
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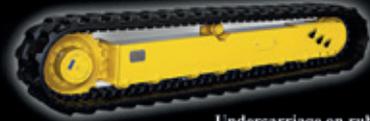
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A clearer vision

When BooBoo Plant Hire looked to increase its dust suppression rental fleet, it turned to Inmalo

BooBoo Plant Hire, based in the south of England, has recently increased its dust suppression rental fleet, having previously encountered issues with other dust suppression systems relating to manoeuvrability, water and power supply. With each site having its own set of challenging conditions, BooBoo Plant Hire's director, Terry Guilder, looked to Inmalo International Marketers (London) for the appropriate solution.

Terry said: "We have just added our 11th Motofog unit to the hire fleet. Inmalo's Motofog is a self-contained unit the size of a large wheelbarrow, which delivers a mighty punch for the money with its engine options. With the Motofog, there is no need for a generator, being fully self-contained has a throw range from 15 to 40 m (49 to 131 ft).

"The MF40D can throw a mist 40 m and with its dual jet technology and head oscillation, it can cover a wide area with a standard water supply connection from a 1 in (25 mm) hose to mains supply or to a tank. The Motofog units are easy to transport in the back of a pickup, and to place around site. One man can easily relocate the unit in a matter of minutes.

"It's a popular hire unit for jobs where excavators are having to constantly reposition, or the site has a restricted working area. At half the price of other portable systems of similar power, these units offered us great value for money."

For larger projects Terry has recently



A Motofog unit in operation at BooBoo Plant Hire's sister company Aitch Demolition

bought three DustBoss units from Inmalo to complement his dust suppression hire fleet. Their first outing immediately put them to the test on the Isle of Dogs, close to the financial sector of London's Docklands. This large-scale demolition project is in the hands of the Erith Group, which is keen to ensure it has the best and widest coverage of dust suppression available to create minimal impact to nearby residents and the environment.

HIGH STREET DEMOLITION

BooBoo Plant Hire recently hired out two MF40D units to sister company Aitch Demolition, which was working in the middle of a high street retail area backing on to residential housing. The demolition of the

Towers Cinema in Hornchurch to the east of London required strict air quality control within a busy and confined area.

"The two Motofog units were ideal for this project", said Terry.

"Working into the building from the rear and preserving as much side wall structure as possible enabled the Motofogs to be positioned to the side of the excavators ensuring that debris and dust were brought down within the building as much as possible. The direction accuracy of the pencil jet ensured that the misting captured the dust at the tool head whilst the second unit created a curtain of mist behind at ground level.

"We're very confident that we now have the right mix of equipment to satisfy most of our clients' demolition projects and that we have a partner who provides a quality and reliable product, technical knowledge and a responsive back-up service," Terry added.

Inmalo managing director, John Polak, said: "We are delighted to be working with Terry at BooBoo Plant, a discerning and exacting customer. The DustBoss DB60 with its robust build, awesome power and range, backed up by an unconditional three-year warranty has enabled BooBoo to reach out to their biggest customers with confidence."

The Motofogs also sell themselves for the small to medium size projects, where unlike some of the more cumbersome trailer mounted units, the Motofog's USP is firmly manoeuvrability on site.

"With the MF40D matching the performance of larger trailer mounted systems, both hirers and owners can be assured of great reliability, performance and value from these self-contained units." ■

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The need for independence and the continuing progress towards urbanisation are just of the themes to emerge from the modern compact crushing market.

Meeting the challenge



The theme of autonomy has always been a priority for many construction and demolition companies. Being able to be independent in terms of fleet and operators allows for increased competitiveness in a sector in continuous evolution, that of recycling and construction. This means not having to hire equipment or depend on special skills brought in from outside the company, optimising costs and increasing competitiveness.

These are exactly the positive features underlined by the owner of the German company Schäuble Hoch- und Tiefbau following a recent equipment deal with MB Crusher of Italy.

"After having purchased a BF60.1 crusher bucket in September 2016, something finally changed," the company said.

"We began to think freely about the business and being free to programme work and earn more.

"We were already aware of the advantages of MB in terms of cost reduction. Advantages resulting from the possibility to recycle materials onsite without having to dispose of them in a dump, with the opportunity of selling the same materials as new aggregates for the building industry.

"We mainly deal with materials from demolition, which we then re-use for other kinds of work, such as filling excavations or for road beds. However, we would never have imagined that such a small bucket applied to

a 12 t Komatsu PC118 excavator would also allow for such highly efficient crushing of basalt. We are very satisfied with the reliability and productivity of this piece of equipment, just as we are satisfied with the aftersales service".

Suitable for heavy equipment from 8 t upwards, MB's smallest model is now presented in the new S4 version, the fourth generation of crusher buckets. This is an updated and strengthened version, both in terms of structure and in a number of important technical details: first of all a restyling of the structural layout which allows for more agile movement and increased speed during crushing operations, facilitating its use on the excavator; the reinforcing of parts which are subject to particular stress, the new options for regulation, widening the range of the dimension of the crushed material, and lastly a new centralised greasing system that simplifies and speeds up on site maintenance operations.

"It's a continuous challenge for improvement," said Diego Azzolin, head of MB Crusher design and production.

"All our products undergo continuous testing and experimentation to improve them and render them more efficient in the various types of work sites that our clients deal with every day."

Finnish company Metso believes that changes in the crushing industry are linked to urbanisation, and the faster and more

numerous construction projects that result from it. While this is good news for the crushing business, it also brings along new challenges. Cost structures are changing, making necessary for crushing to take place closer to the actual construction site. Simultaneously, crushing within cities is becoming more tightly controlled through environmental and safety regulations.

Metso says: "Our customers have an increasing need for crushing operations close to densely inhabited areas, even in the centre of cities. In fast-growing countries in particular, where cities are quickly expanding and masses of people are moving closer to what would be considered traditional crushing sites, urban crushing is often a necessity. These operations are regulated by environmental permits that vary from country to country. When designing the new Lokotrack Urban, we wanted to simplify the answer to some of these key environmental and operational challenges with a single solution."

NOISE AND DUST

The company says the main issues for crushing rock close to communities are noise and dust emissions. Areas with bad air quality have increasingly tight limitations for dust emissions, whereas long-term exposure to loud crushing noise, both for employees on site as well as people living nearby, leads to various health concerns.

To solve this, it decided to find the root cause that makes crushing noise disturbing. To do so, it collaborated with some local authorities, research organisations and private companies operating with acoustics and communal design. Metso's patent-pending solution focuses particularly on the reduction of crusher noise, which makes the whole crushing operation less disturbing. Since noise protection mechanisms need to be as air-tight as possible, they also help to manage dust emissions. This is especially the case when combined with other dust prevention features, such as a high-pressure water spraying system.

However, noise and dust are not the whole story. One common target for most operators is to limit the need for transportation. In



Combining a BF60.1 crusher bucket with a 12 t Komatsu PC118 excavator worked well for MB Crusher's German customer Schäuble



McCloskey International's redesigned I54v3 mobile impact crusher contains several new features

the worst-case scenario, demolition waste from construction and rock from quarries are transported back and forth. This leads to hundreds of truckloads, increased transportation costs, more traffic and emissions – and even delays in construction projects. Many quarry operators also work in multiple sites, and equipment may need to be moved several times a week.

“A machine designed for short-term use

must be both robust and compact. We decided to use proven technology – but to add new noise and dust protection features to build a unique machine. As the base technology, we chose the LT106, one of our most widely used mobile crushing plants in the market. We paid special attention to make it as easy to maintain as possible. If needed, the Urban can be ‘packed up’ for transportation in only 15 to 30 minutes. The compact machine is also easy to move around within the same site. Ideally, aggregates can be used in the same location to completely avoid hauling.”

McCloskey International has introduced a new highly efficient version of its I54 mobile impact crusher. Following worldwide field site visits, feedback from the customers has resulted in significant changes to the crusher, including direct drive, an enhanced material flow path, larger pre-screen, and a more open chassis.

DIRECT DRIVE

Efficiency is boosted with the new crusher design, particularly in the material flow path. Each sectional component is wider than the last to allow an unrestricted flow without funnelling or narrowing, eliminating material bridging. The straight sided chutes manage the material as it passes through each section that is wider than the last – feeder, to pre-screen, and chamber to a wider optional underpan.

The direct drive crusher rotor is also a new feature on the I54v3, bringing more power, along with lower fuel costs. The redesigned open chassis allows for better access, and a hydraulic adjustable magnet contributes to easier operation of the crusher.

According to McCloskey, the I54v3's new larger 2.44 m (8 ft) double deck pre-screen brings more efficient fines removal to production, maximises the crusher's productivity, and delivers screened product via a straight chute to a new, wider 81 cm (32 in) side conveyor.

McCloskey says the I54v3's versatility and upgraded design makes it ideal for some of the toughest applications worldwide, including

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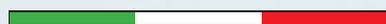


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Metso's Lokotrack LT106 urban takes compact crushing closer to the job site

asphalt recycling, concrete recycling, rock crushing, construction and demolition.

"Talking to our customers and gathering their feedback is what allows us to continually evolve our products. The redesign of the I54 has resulted from the collaboration between us and our customers," said Paschal McCloskey, president and CEO.

"They rely on us to continually improve our products, and the feedback we get from them allows us to deliver the most productive, and relevant, equipment in the industry. We will always look at new and innovative ways to develop our products to meet the unique challenges of projects around the globe."

USA-based Cemco, which has provided solutions for recycling applications for more than 50 years, has introduced a portable industrial tile recycling plant as a zero-waste solution for crushing stockpiles of unused tile into a fine product suitable for use as a raw material. The entire system, which is mounted on a custom trailer for convenient hauling, can be fully operational within an hour of arriving

at a jobsite, and Cemco also works closely with companies to customise plant designs to suit a variety of material recycling applications.

Cemco designed the plant around its Turbo 54 VSI Crusher, an efficient, highly productive vertical shaft impact crusher capable of processing a variety of aggregates and industrial minerals. The Turbo 54 handles material as large as 5 cm (2 in) and uses

centrifugal force with stationary anvils to crush it along natural stress lines into a uniform, cubic, high-quality product. The crusher features a single-drive motor with input horsepower capabilities up to 250.

The closed circuit plant also includes a primary crusher, dust collection system, triple-deck incline vibratory screen and vibratory feeder. A 500 kW generator powers the equipment for ultimate location flexibility.

"This plant is absolutely one-of-a-kind. A customer approached us looking for a portable option for tile recycling," said Jennifer Hise, Cemco vice president.

"By adapting the plant's components to fit on the relatively compact surface of a single trailer, we eliminated the need to transport the equipment separately and reconfigure the plant at each site."



Cemco's portable tile recycling plant is based on its Turbo 54 VSI crusher

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Gathering momentum

The Plantworx exhibition, which takes place in the United Kingdom in June, was established as recently as 2013 – but with more than 100 new exhibitors and visitor levels increasing with each event, it's becoming a fixture in the calendar.

ATLAS COPCO

Atlas Copco will be showcasing products including compressors, generators, hydraulic, pneumatic, electric and petrol handheld tools, concrete and compaction, rig-mounted hydraulic attachments, pumps and Dynapac road construction equipment.

See the recently launched 8 Series portable compressor – weighing under 750 kg (1,653 lb) across the range – alongside the Cobra Pro electronic fuel-injected petrol breaker and the Rtex pneumatic breaker with its groundbreaking design that achieves a reduction in air consumption of 50% with a 25% lighter product.

AVANT TECNO

Avant will be exhibiting and demonstrating examples from its extensive range of compact tool carriers including the revised 700 and 500 series. In addition the company will be showcasing the new Leguan 135 access platform, which has been designed to make operation easier, safer and more efficient. It is a compact design but without compromising on stability or reach. Powered by either its 13 hp Honda petrol engine or an electric motor, the 135 provides automatic levelling with up to 13.2 m (43 ft) vertical and 6.8 m (22 ft) horizontal reach with a safe working load in any position of 140 kg (308 lb).

BROKK

The Brokk Concept is radio controlled power in a small package. Customers can choose from a range of 10 machines, which now includes



The range on show from Case Construction Equipment includes the TR270 compact tracked loader

the Brokk EX series, the full range designed specifically for use in potentially explosive environments. With a range of available tools, including grapples, scabblers, buckets, drills and other attachments, the Brokk machine is designed to tackle both indoor and outdoor tasks, bringing safety, efficiency and versatility to any job.

CASE CONSTRUCTION EQUIPMENT

Case will present its new and upgraded machine ranges at Plantworx 2017.

Making their first appearance in the United Kingdom since their official launch in January and March respectively, will be models from the new C Series mini excavators, upgraded Tier 4 final backhoe loaders and the new G Series wheel loaders, all of which will feature Case's new livery.

There will be a display of machines



Key Plantworx information

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designed for all sectors of the construction, quarrying, rental, and waste and recycling industries, equipped with the latest emissions-compliant engines and fuel-saving technology. These will include crawler excavators ranging from the midi CX75C and CX80C up to the heavy range D Series CX130D, CX245D SR, and CX290D MH, as well as the 1150M dozer, plus a 690ST backhoe loader and a TR270 compact tracked loader.

DOOSAN BOBCAT

New products from Doosan and Bobcat will include the Doosan Stage IV compliant

>36



An aerial view of the Plantworx site at Bruntingthorpe, United Kingdom



Doosan's stage IV compliant DX225LC-5 21 t crawler excavator

DX225LC-5 21 t crawler excavator, the new 16.5 tonne DX165W-5 short tail wheeled excavator, the new Bobcat 1.7 tonne E17Z Zero Tail Swing (ZTS) canopy excavator and the T40.180SLP and T36.120SL models from the new range of Bobcat rigid frame telehandlers. There will also be plenty to see in the working area with Doosan and Bobcat products being put through their paces, including a demonstration of the versatility offered by Bobcat loaders and attachments aimed at a range of jobs. Completing the picture are the latest generators, portable compressors and light towers from Doosan Portable Power including the first showing of the new 7/41TTG compressor-generator incorporating a new on-board 8.5 kVA generator.

ECY HAULMARK

ECY Haulmark is one of Europe's largest suppliers of demolition equipment, supplying equipment to the demolition, recycling and rehandling industries. It offers a range of demolition equipment including selector grabs, concrete pulverisers, hydraulic breakers, steel shears, magnets, crushing and screening buckets and mobile impact crushers from the most respected names in the industry such as VTN Europe, Rubble Master, Stanley LaBounty, FRD Furukawa, OilQuick and Dynaset, as well as a comprehensive range of spare parts and after service.

FINNING

Finning UK & Ireland will launch its retail proposition, Ready2Go.

This will address the industry's need for available, accessible, and affordable machines, as and when they're needed.

The Finning and Caterpillar team will be on hand to discuss how machines, products and services will become far more accessible, and further guidance on finance options, ensuring a range of affordable and reliable solutions.

The first Cat machines to be included in the Ready2Go proposition are the 300.9, 301.7 and 305E2 CR. Also appearing at Plantworx are the 308E2 CR, TH417C GC and new CB2.7D.

GARIC

A manufacturer and supplier of demolition and construction site welfare facilities, Garic

The Tefra tilt hitch from Hill Engineering will be on show



will be launching the latest in its range of eco-efficient solar powered products. The new drying room is a world first and looks set to save up to 86% in energy costs.

Design-patented, the 3.05 x 2.44 m (10 x 8 ft) drying unit with two changing benches and a coat rail is the only stand alone, self-contained solar powered unit on the market. Its launch follows successful onsite trials by client Interserve, which was impressed to find an alternative to existing costly to run mobile drying room products.

It has a thermostatically controlled solar powered, blown-air heating system supported by an oil burner for quicker and quieter drying. Crucially, Garic's unit uses solar energy for its electrical functions and negates the need for traditional diesel fuelled generators or input from mains electricity. Huge savings are evident from an environmental point of view and in monetary terms too.

HILL ENGINEERING

Hill Engineering, an attachment manufacturer based in Northern Ireland, is exhibiting again and will be showing its new Tefra tilt hitch, the award winning Tefra coupler, Hill Titan buckets and the recently launched Hill Titan Thumb.

The Thumb adds versatility to an excavator and is suitable for a variety of material handling. The Hill Thumb makes it easier to pick, hold and move a variety of materials that would not fit or stay in the bucket without assistance.

Also on display will be the new Tefra tilt coupler – this versatile attachment takes all the advantages of the Tefra coupler but provides the added benefit of increased productivity and versatility in multiple applications.

JCB

Plantworx 2017 will see two UK firsts from JCB, with British show debuts for the JCB 540-180 HiViz Loadall and the world's first skid

steer with a telescopic boom, the JCB Teleskid.

The Teleskid is a revolutionary new product that can reach 60% further forward than any other skid steer on the market and JCB says that in an industry first it is the only skid steer in the world that can dig below its chassis to a depth of around one metre. In addition, it is said to reach 8% higher than any other skid steer.

There is also a first UK public appearance for the JCB 540-180 HiViz – an 18 m (59 ft) Loadall which expands what is already the world's biggest range of telescopic handlers. According to JCB, the new Loadall offers a 5% improvement in lift height, 10% greater forward reach, 50% lower SAE serviceability rating, 50% service cost saving over 1,000 hours and 20% faster cycle times.

MECALAC

Mecalac Construction Equipment UK (formerly Terex GB), will showcase its latest compact machinery portfolio – including the brand new TLB870 backhoe loader and the TA9SP site dumper.

The event will also see Mecalac introduce a suite of new model technologies, including the roll-out of site dumper telematics and hazard detection capability, as well as showcasing other products from Mecalac, including the award-winning MWR wheeled excavator.

Joining the MWR on the stand, Mecalac's all-new TLB870 has been specifically developed for the rental marketplace, offering superior productivity and an intelligent hydraulic system to reduce power consumption and improve fuel economy. The model's modern design also features an all-new loader arm, bespoke roof canopy and LED lights for improved operator experience.

MORRIS SITE MACHINERY

Morris is set to unveil its most comprehensive range of innovative power generation products at Plantworx, from canopied rental and open

Mecalac will show its range of compact equipment



set petrol generators to the latest lighting tower – the TL90 Ultimate.

The leading light and power supplier is bringing more solutions and technology focused products to the construction market. The new TL90 Ultimate, offers over 20 variants of specification allowing customers to bespoke build and spec-up their lighting towers according to site needs and budget - a first in the UK market.

The SMC Genpac open set petrol generators start from 2.5 KW and are ideal for onsite welfare units, while the SMC Weldpac range offers up to 200 amp welders and is suitable for small applications.

RED RHINO CRUSHERS

Red Rhino is attending the show as Environment Winner in the prestigious Plantworx 2017 Awards for Innovation.

Sponsored by the Construction Equipment Association this recognises the progress made by the company in developing new products specifically designed to reduce its customer's carbon footprint.

Speaking after the award ceremony in London, Simon Winfield, managing director of Red Rhino Crushers said: "One of the attractions of acquiring the brand in 2009 was the opportunity to help to drive down harmful emissions by reprocessing waste materials for use on the same site."



Simon Winfield of Red Rhino Crushers receives the Environmental Winners Award in this year's Plantworx Awards for Innovation

SOCOMEK

Founded in Parma Italy, Socomec has more than 40 years experience in the production of hydraulic demolition attachments.

After continuous development, which can be seen in the monoblock design for breakers up to 13 t excavators along with achieving pole position in the Italian demolition market, in the past 10 years Socomec has enlarged its product range, being able to sell on all five continents, where it exports over 50% of its production.

Socomec UK along with main dealer Boss Plant Sales, are now seeing increasing sales of the company's products into the UK market.

TJC SALES

TJC Sales, a UK dealer for Hidromek is showcasing the HMK 102B Supra and the award-winning HMK 140LC and HMK 220LC Gen Series.

A first time exhibitor at Plantworx, TJC is hoping to make a big impression with the Turkish manufactured range of machinery which offers high efficiency, comfort, and performance. Visitors will be able to see live demonstrations of the products in action. The HMK 140LC Gen Series will be on show on the stand.

Licensed operators will also have a chance to experience the outstanding performance of the cutting-edge machinery in the demonstration area.

TJC says the award-winning HMK 140LC and HMK 220LC GEN Series provides increased performance, ease of control and reliability. These models are described as highly responsive, efficient and have been designed to give a high level of operator comfort. The low fuel consumption and easy maintenance of these machines add to the sustainable qualities of the Gen Series range.

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Tyrolit is one of the world's leading manufacturers of grinding, cutting and drilling tools and machines, with a global manufacturing base of 28 factories in 12 countries.

In the construction business, Tyrolit is a leading system supplier of sophisticated drilling systems, wall wire and floor saws as well as tools for grinding uneven surfaces such as motorways and runways. Tyrolit produces standard and customised machinery for these applications together with diamond tools for machining concrete and asphalt.

At Plantworx Tyrolit will be displaying and demonstrating its range of hydraulic and high frequency wall saws and wire saws together with floor saws and drilling equipment.

VOLVO CONSTRUCTION EQUIPMENT

Volvo Construction Equipment will showcase its full range of utility equipment at this year's Plantworx exhibition. Volvo says its compact excavators use superior technology to provide the best performance and efficiency for reduced costs and maximum uptime. The company also guarantees constant technical support and efficient logistics to keep the machine working. The Volvo EC140E digger has been designed to deliver every function with superior efficiency and incorporates the latest fuel efficiency technology, to reduce emissions while increasing productivity.

WACKER NEUSON

Wacker Neuson is exhibiting at Plantworx for the third time. It says its highlights include the DW90 cabbed dumper with new optional safety system and the ET90 excavator with excellent engine and hydraulic performance, as well as the award-winning WL20e electric wheeled loader.

With two electric motors, one for the drive system and one for the operating hydraulics, the WL20e works purely electrically. The two electric motors ensure that the performance features of the wheeled loader with a bucket capacity of 0.2 cu m (7 cu ft) match those of the conventional compact battery-powered wheeled loader van and benefit from the advantage of zero emissions.

WORSLEY PLANT

In 2001 the BF90.3 was the first crushing bucket ever made in the

The WL20e electric wheeled loader will be among the highlights as Wacker Neuson exhibits at Plantworx for the third time



world. Now more than 15 years later Worsley Plant is announcing the launch of the Series 4 at this year's Plantworx.

Designed to resist the most challenging conditions on any site, the BF90.3 crushing bucket, described as extremely compact and versatile, has been updated and made more powerful over the years.

Suitable for all crushing operations, it maintains the same performance results with all types of inert material.

As well as showcasing this new innovative piece of equipment at Plantworx, Worsley Plant will also be demonstrating crushing and screening buckets from Remu and MB, as well as demolition attachments from Rotar, and the Lehnhoff fully automatic Quickcoupler. ■

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New quick coupler for Bobcats

Doosan Bobcat EMEA has extended its excavator quick coupler offering with the launch of a new hydraulic pin grabber coupler for attachments used on the seven Bobcat compact excavators from the E25 to E55 models.

The new Bobcat hydraulic coupler is available both as a factory installed option and as an aftermarket product for use with all the pin-on fitting attachments for the excavator range. It complements the existing full range of mechanical couplers from Bobcat including Klac and Lehnhoff.

Key features and benefits of the new quick coupler include its triple lock design for greater safety, exceeding the ISO 13031 norm and complying with all safety standards in the industry in Europe and the UK.

There is a wide variable pin centre, to pick up multiple pin-on attachments. A robust, yet compact design ensures maximum breakout force and the system is essentially maintenance free.

Powerful springs are activated in case of pressure loss to avoid any risk and reversibility is standard when the job requires it.

The operator can change non-hydraulic attachments without leaving their seat. The company says this means more comfort for the operator as well as higher productivity, because the attachments can be changed faster.

Same performance but less weight

Germany-based manufacturer Atlas Copco says one of its ongoing goals is to help customers reduce operating costs and believes its new MB 1650 hydraulic breaker is a typical example.

Replacing the MB 1700, the MB 1650 is



lighter and more compact yet gives the same performance as its predecessor.

The company also says the new design offers higher reliability, lower repair costs and easier accessibility for maintenance.

Weighing 1,650 kg (3,637 lb), the product breaker is described as suitable for carriers between 19 and 32 t.

Breaker performance is optimised by AutoControl, an automatic piston stroke length switching system, which adjusts the output balance between impact energy and rate during operation.

In addition, Atlas Copco's EnergyRecovery feature automatically uses the piston recoil energy to increase the performance, without additional hydraulic input, and to lower vibrations.

The integrated StartSelect valve enables the operator to adjust the hydraulic breaker start-up behaviour according to the operating condition in a few simple steps.

Noise and vibration levels are said to be minimised by the VibroSilenced Plus system. This is achieved by using non-metallic suspension arrangements to isolate the percussion mechanism from the breaker box and sealing all openings for lower noise and vibration levels. ■

The MB 1650 hydraulic breaker is suitable for carriers between 19 and 32 t

Space not an issue for Case excavator

Case Construction Equipment has introduced the all-new CX245D SR minimum-swing radius excavator to its D Series line up.

Designed to provide increased digging and lifting power in confined work areas, it features a compact counterweight and modified boom placement that minimises the machine's footprint.

With an operating weight of 26 t and a 160 HP Tier 4 Final/Stage IV engine, the machine offers more bucket digging forces and lift capacity compared to the previous model.

Each D Series model is built to provide significant operational gains, including decreased cycle times, improved responsiveness and multifunctional controls, and greater fuel efficiency. An electronically controlled hydraulic pump and larger control and solenoid valves increase lifting capacities and improve responsiveness.

The excavator meets Tier 4 Final/Stage IV emissions standards through a combination of selective catalytic reduction (SCR) and diesel oxidation catalyst (DOC) technologies, which

helps maximise uptime and performance with minimal maintenance. There is no diesel particulate filter and no DPF regeneration or associated lifetime service costs.

The system is also very economical in its use of AdBlue, which is just 2.5 to 3% of fuel consumption. ■



The D Series has been built to provide increased digging and lifting power in confined spaces



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Hyundai's helping hand

Hundai Heavy Industries (HHI) and its local dealer Hitex supplied two machines free of charge for four months to help clear and reconstruct areas affected by last August's earthquake in central Italy.

The earthquake, which had its epicentre near Accumoli between L'Aquila and Perugia, claimed almost 300 lives, and HHI Europe offered a R60CR-9A crawler excavator and a HL757-9A wheeled loader to the emergency services.

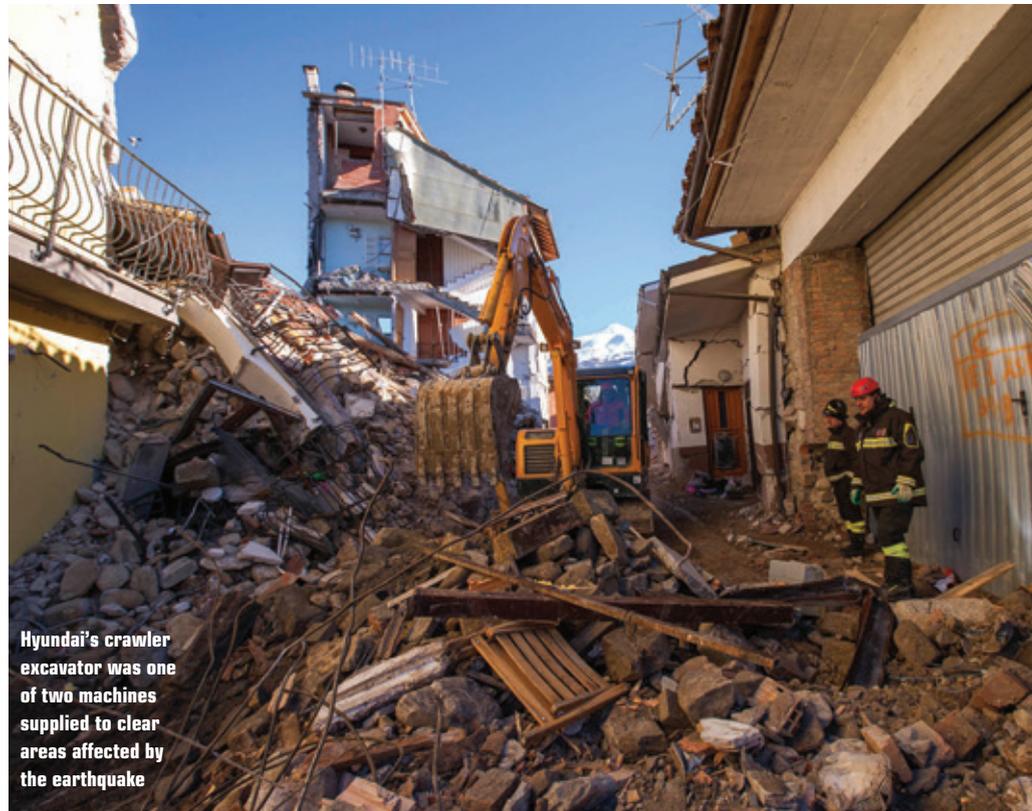
The HL757-9A wheeled loader is one of six models in the Hyundai's -9 series of machines with operating weight between 9 and 33.5 t, with bucket capacities of 1.8 to 6 cu m (63 to 212 cu ft). It has a weight capacity of 14,700 kg (32,407 lb) and a bucket capacity of 2.8 cu m (98 cu ft).

It is designed to allow the operator to adjust the engine power and the timing

of the automatic transmission and clutch disengagement based on the application and preference.

In addition, its fully automatic transmission is equipped with self-diagnosis and low temperature protection – which is

especially important working in areas where winter temperatures regularly drop below freezing. Enhanced axles on the machine also improve driving on rough terrain, such as that resulting from the rubble caused by the earthquake. ■



Hyundai's crawler excavator was one of two machines supplied to clear areas affected by the earthquake

Liberty in control at Munmorah

Australian demolition contractor Liberty Industrial has completed the demolition of the iconic chimney stacks at Munmorah Power Station in New South Wales.

The 155 m (508 ft) high stacks were taken down in just a few seconds during a controlled explosion at 9.30am on a Sunday.

Liberty is demolishing the entire power station in a contract with Generator Property Management, scheduled for completion in September 2018, but the topping of the chimneys is viewed as a significant milestone for the works.

It was the result of months of planning and consultation between Liberty's project team, government health and safety agency Safework New South Wales, and a number of regulatory authorities.

The final outcome was achieved by selectively removing a section at the base of each stack and placing explosives to remove the adjacent panels so the stacks fell in the right place.

"Our key priority is always safely. The execution was carefully planned to control the direction of felling, and potential impacts such as noise and dust were managed in the most proactive way possible," said Liberty director Simon Gill.

Stephen Saladine, managing director of Generator Property Management, added: "It is very pleasing to see that the detailed engineering and planning undertaken to ensure the safe removal of the chimney stacks has been vindicated."

Two further explosive demolition events are planned at the site for later in the year.

Collins reaches new heights

United Kingdom-based Collins Demolition has taken delivery of its first high reach machine – a Volvo EC 380E HR and a brand new Rotar RSS20 scrap shear.

The excavator and scrap shear were showcased at 'Live It. Dig It' Show in the midlands recently and its first job will be in on a three-storey steel framed building in the city of Chester in the north-west of England.

The Volvo comes with full factory specifications, including a tool weight capacity of 3 t and a 23 m (75 ft) reach. With an extendable undercarriage and digging arm, which can be easily changed over to or from the high reach arm, it also features a tiltable cab and is fully guarded with bolt on side protection and water dust suppression.

Collins Demolition has excavators ranging from 6 to 75 t, all manufactured by Volvo.

It already has a range of Rotar grabs, shears and pulverisers, purchased from attachment specialist Worsley Plant.

With the new piece of equipment, the company no longer needs to hire a high reach machine when it needs one on a job. ■



Collins Demolition is a long standing user of Volvo excavators and Rotar attachments



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The EDA's 2016 Annual Convention, which took place in Glasgow, United Kingdom

The European Demolition Association (EDA) DDR Forum & Expo 2017 takes place in Brussels from June 14 to 16. Here, the association previews the event.

Focus on Europe



DDR 2017
Forum & Expo
Demolition, Decontamination and Recycling

June 14th-16th, Brussels

The DDR Forum & Expo 2017 will be held from Wednesday June 14 to Friday June 16, in Belgium's Brussels Expo. It will take place with the support of the European Decontamination Institute, national member associations of the European Demolition Association, and some industry institutions.

The European Commission (EC) will chair three plenary sessions, presenting relevant changes in legislation.

Other institutions such as the European Builders Confederation, Construction Product Europe and the Fédération Internationale du Recyclage will also lead conference sessions.

Companies exhibiting at the event include Caterpillar – which will launch its new 340F UHD tracked excavator – Liebherr, Kee-track, MB Dust Control, Dynaset, Atlas Copco, Arvi, Demarec, Arden Equipment, VTN Europe, Leotech, Hydraram, Grabiron and Demtech.

The conference programme focuses on the Circular Economy, European Union initiatives and legislation, projects, case studies and best practice. There is a total of 34 sessions.

In the Plenary room and Workshop room, presentations will take place from 9am to 6pm on Wednesday and Thursday, and until 1pm on Friday.

Sessions include "Construction and demolition waste management protocol" and "Developing a circular economy in Europe", by delegates from the European Commission.

Both sessions will take place on Friday in the Plenary room of the venue.

"Digitalisation and BIM applied to construction materials", by the European Construction Industry Federation (FIEC) and Construction Products Europe, will take place at 1pm in the Workshop room.

The first one, under the title "Future and current potential of construction product manufacturing" will be made by Paul Surin, head of built environment at Wienerberger.

Paul understands that industry 4.0, circular economy and smart assets, data standardisation, potential growth of the sector, changing points of interaction and a manufacture led approach to construction projects is what BIM means for manufacturers.

Claude Dumoulin will be in charge of the second presentation, called "FIEC's approach to relevant policy on digitalisation".

Claude is FNTF participant at Afnor, participating in CEN/TC 442 BIM and ISO CEN TC 59 SC 13, as representative of the FIEC.

For him, digitalisation in construction is not new, but emerging policy related to digital construction is – and policy makers are catching up with the rapidly evolving situation in the European construction industry with measures and related initiatives such as the use of public procurement as a way of stimulating the uptake of BIM.

Claude thinks BIM can help achieve the objectives of relevant EU policy.

WHAT NEEDS TO BE DONE

Although digitalisation is about much more than just BIM, from his point of view, it is necessary to identify what needs to be done, by the industry as one key half of an important partnership and by policy makers as the other, to improve the implementation and accelerated uptake of BIM across Europe.

"Carcinogens in construction and demolition", by the European Federation of Building and Wood Workers (EFBWW), will take place in the Workshop room on Thursday at 4pm.

Regarding recycling, the conference programme has a session for each material – metals, glass, plastics, construction and demolition waste, concrete and aggregates.

European projects will also have their time. Representatives of Hiser, GtoG, Flat to Flat and Veep will participate in presentations on Friday in the Workshop room.

The main goal of the Hiser project is to develop and demonstrate novel cost-effective

technological and non-technological holistic solutions for a higher recovery of raw materials from ever more complex construction and demolition (C&D) waste, by considering circular economy approaches throughout the building value chain from end-of-life to new.

On the other hand, the GtoG project aims at transforming the European gypsum demolition waste market to achieve higher recycling rates of gypsum waste, thereby helping to achieve a resource efficient economy.

In the Flat to Flat project, the objective is to develop and validate an innovative method for recycling and upcycling glass and other waste materials in the production of flat glass, through an innovative grinding technology that allows the content of recycled materials of the final flat glass to be raised to 25%, and the use of up to 55% of glass cullet.

Finally, the Veep project funded under the Horizon 2020 EU Framework Programme for Research and Innovation, aims to eco-design, develop and demonstrate new cost-effective technological solutions that will lead to novel closed-loop circular approaches for C&D waste recycling.

For more details, please visit the website at www.ddrexpo.com

About the EDA



The European Demolition Association (EDA) was founded in 1978 and is the European platform for national demolition associations, demolition contractors and suppliers. It organises annual events to bring together the demolition industry from all over Europe. The most important one is the Annual Convention, a meeting that includes technical presentations about key topics as well as optional leisure activities. The EDA represents thousands of companies through its national associations and direct memberships.

For more details, please visit:

www.europeandemolition.org

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June 30 is deadline for demolition awards



The 2017 World Demolition Summit heads to London on Thursday November 2 – and *D&Ri* has the latest news ahead of the industry's annual gathering.

The deadline for entries to this year's World Demolition Awards is June 30 – just weeks away.

The awards ceremony takes place on November 2 and our international panel of judges – who have more than 300 years of industry experience between them – will be busy throughout the summer deciding on the shortlisted companies and then the eventual winners.

More than 50 shortlisted entries contested the awards last year, with 11 different companies sharing the honours and five of those coming out on top for the first time.

Entry forms can be downloaded from the event website at: www.demolitionsummit.com/awards.html

There's also a helpful 'how to enter' leaflet available in five languages for anyone entering for the first time, or just needing a refresher on what's involved in going for a World Demolition Award.

Once again there will be 11 categories to enter, as follows:

- Civils Demolition
- Collaboration in Demolition
- Explosive Demolition
- Industrial Demolition
- Innovation – Plant and Equipment
- Innovation – Tools and Attachments
- Recycling and Environmental
- Safety and Training
- Urban Demolition
- Contract of the Year under US\$1 million
- Contract of the Year over US\$1 million.

Another presentation, for the World Demolition Award, will be made on the night to the overall winner.

A World Demolition Awards 2017 entry form – you need to complete and send yours by June 30

For more information on the event, visit www.demolitionsummit.com

The World Demolition Summit is organised in co-operation with the European Demolition Association. Headline sponsor is Volvo Construction Equipment.

WDS's friend in high places

John Woodward isn't just a session chair at this year's World Demolition Summit and a long standing World Demolition Awards judge – he's one of the event's biggest supporters as well.

John – whose United Kingdom-based business C&D Consultancy has advised on taking down everything from tower blocks to chemical plants – regularly publicises the WDS in his company's own e-newsletter,

called *Demolish and Dismantle*. It covers the latest in demolition from both C&D and elsewhere, as well offering updates on the training arm of the business.

John's colleague Mike Kehoe, himself a speaker at last year's WDS in Miami, told *D&Ri*: "We wear many (hard) hats and take up many roles so, in football terms, we are a pretty good utility player who can do a job in many positions on the field.

"Both John and I are passionate about training the industry so we are often running National Demolition Training Group approved courses throughout the country to ensure that demolition workers get trained where they like and when they like.

"The rest of 2017 looks interesting for us with two major overseas projects now secured and we are in early involvement talks on a number of major UK schemes where clients are listening to the Health and Safety Executive and obtaining specialist demolition advice to discharge their duties and demonstrate that they are an informed client."

For more details, please visit <http://demolishdismantle.blogspot.co.uk>





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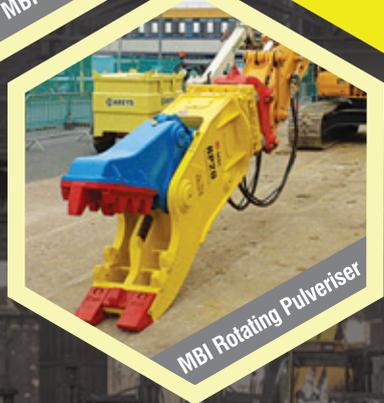
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