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DEMOLITION &

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Metso's new Lokotrak ST2.8 mobile screen will be a highlight of the upcoming ConExpo trade show in Las Vegas. For more, see the guide on page 19



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DIARY DATES

2014

NDA CONVENTION

February 22 – 25, 2014
Las Vegas, USA
www.demolitionassociation.com

CONEXPO-CON/AGG 2014

March 4 – 8, 2014
Las Vegas, USA
www.conexpoconagg.com

GERMAN DEMOLITION CONFERENCE

March 28 – 29, 2014
Berlin, Germany
www.deutscher-abbruchverband.de

SMOPYC 2014

April 1 – 5, 2014
Zaragoza, Spain
www.smopyc.com

SAMOTER 2014

May 8 – 11, 2014
Verona, Italy
www.samoter.com

ANKOMAK 2014

May 21 – 25, 2014
Istanbul, Turkey
www.ankomak.com

EDA ANNUAL CONVENTION 2014

June 12 – 14, 2014
Madrid, Spain
www.europeandemolition.org

APEX 2014

Aerial Platform Exhibition
June 24 – 26, 2014
Amsterdam, Netherlands
www.apexshow.com

BAUMA CHINA

June 24 – 26, 2014
Shanghai, China
www.bauma-china.com

HILLHEAD

June 24 – 26, 2014
Buxton, UK
www.hillhead.com

STEINEXPO 2014

September 3 – 6, 2014
Homburg/Nieder-Offeiden, Germany
www.steinexpo.eu

2014 WORLD DEMOLITION SUMMIT

November 6, 2014
Amsterdam, Netherlands
www.demolitionsummit.com

OCS acquires EDS divisions

In yet another blow for the UK demolition industry, one of its one-time leading lights has been brought low, with the announcement that UK-based facilities management provider OCS has acquired the decontamination, access & insulation and nuclear trading divisions of EDS, comprising Euro Dismantling Services, EDS Plant Solutions and EDS Group Holdings, from parent Silverdell plc.

However, the deal excludes the decommissioning division operated by Silverdell, resulting

in the likely loss of some 100 demolition jobs, although 500 others have been saved by the acquisition.

“The specialist services provided by the acquired business units will complement our core facilities management offering” said Martin Gammon, chief executive officer for OCS Group UK and Europe. “This acquisition once again demonstrates our unique ability to move swiftly to secure deals in distressed circumstances.”

In the 2013 *De&Ri*100, EDS stood at 23 in the list with a

reported turnover of US\$66 million in 2012. According to financial reports, Silverdell began experiencing financial problems in July 2013 when one of its subsidiaries entered administration. Its shares were suspended on 2 July and cancelled on 2 January 2014. OCS said it became aware of the opportunity available to it in December and worked over the Christmas period to undertake due diligence. The terms of the acquisition were not disclosed. ■



DEMOLITION BITS

The 2011 terrorist bomb attack in Oslo, Norway, may add the loss of five Picasso designs to the eight persons killed by that attack and the further 69 shot later. The blast damaged the Norwegian prime minister's High Block building that features the designs so badly that it is estimated that 400 million crowns (US\$65 million) would be saved by its demolition and replacement with a new construction. The Norwegian government is to discuss the possible demolition, including the Picasso artwork, in Spring 2014.

Robot success in Finland

When Avant Tecno launched its 185 demolition robot in spring last year (see *De&Ri* Mar-Apr 2013, p57, for more detail) one rationale for its introduction was that it could be used with the company's compact loaders, suitably modified for the demolition role, to provide a 'one stop shop' for demolition contractors. This has now been illustrated by Finnish demolition contractor Paupek Oy, admittedly already an Avant customer, who in November took delivery of one Robot 185 and three loaders.

In addition, Avant says that a new breaker, the B230, will be released in February that has been tailored for use on the

Robot 185. The B230 will have a power of 19.8 kW and a blow frequency of up to 2,600 per minute

The electrically driven Avant Robot 185 features a compact design that does not compromise on efficiency or reach, says the company. It can be powered either by a 35 A/18.5 kW or 32A/15 kW electric motor, to provide flexibility and power when and where it is needed.

Equipped with a telescopic boom, the maximum vertical reach is 5.5 m (18 ft), while horizontal reach is 4.5 m (15 ft). Excluding attachments, the Avant Robot 185 weighs in at 2,000 kg (4,400 lb). ■



PEOPLE NEWS



Dave Lyste has been appointed by Rachel Contracting to the position of vice president – earthwork group manager. He previously

held the position of group manager of the company's renewable energy division. According to the company, earthworks related business now accounts for 75-80% of its business.

Joe Rizzo, business development manager for Houston, USA, based Cherry, has been elected to a two-year term on the board of directors for the Houston Contractors Association (HCA). The HCA is an organisation representing civil construction companies in the greater Houston area. Its 400 members perform more than US\$ 2 billion (€1.5 billion) worth of work and services annually.



Long-time employee **Alan Egge** has been promoted to the post of engineering manager of Kolberg Pioneer Inc's facility at

Yankton, South Dakota, with responsibility for managing the design engineering and technical publications department. He replaces

Greg Stach, who retired from KPI-JCI and Astec Mobile Screens in January 2014.

On your marks

WORLD DEMOLITION AWARDS 2014

After considerable consultation with the judging panel following the successful 2013 World Demolition Awards, *D&Ri* can now announce the categories that are open to contractors to submit their entries for the 2014 Awards: They are as follows:

Contract of the Year over US\$1.5 million – project specific

Contract of the Year US\$500,000 to US\$1.5 million – project specific

Contract of the Year under US\$500,000 – project specific

Safety & Training Award – not project specific but based on company practices, performance and policies

Collaboration Award – project specific

Explosive Demolition Award – project specific

Urban Demolition Award – project specific

Industrial Demolition Award – project specific

Civils Demolition Award – project specific

Environmental Demolition Award – project specific

Manufacturers' Innovation Award: Series Product

Manufacturers' Innovation Award: Custom Product

The principle behind this restructuring is to encourage smaller demolition contractors to enter in 2014 who may have been put off the idea of competing against the 'big boys' in the past,

especially in the Contract of the Year category. We have also made some of the categories retained from previous years project specific in nature in the hope that this will make potential entries more identifiable as well as make the entry process simpler.

There are also two other categories available to the judging panel in 2014 for which entries cannot be made. Details on these will become clear on the night of the Awards presentations. You will therefore need to be there to find out more.

Entry forms are now available for download from www.demolitionsummit.com.

All entries require a 1,200 word summary but should also include full supporting documentation/images for verification purposes. ■

Golden year for 777

2014 sees UK contractor 777 Group celebrate its 50th year in the demolition industry. The company was founded by John Pierce in 1964, with son Michael joining a few years later and subsequently buying it from his father in 1981. Michael said of this period: "When I bought the business it consisted of just two machines and one lorry. I set about expanding it, bringing new people in to work for me and building up a fleet of machinery. I focussed on making sure the company always delivered on its promises by keeping our word and completing jobs to the highest of standards. To this day, with over 40 machines and employing 90 staff, this ethos still remains an integral part of our success."

777 was one of the first UK contractors to invest in ultra high reach excavators when it acquired a 50 m (165 ft) unit based on a Hitachi EX1200 provided by Kocurek in 2003, which was joined by a second similar machine in 2007.

As is frequently the case today, the company's operations have expanded to include services that are complimentary to its initial demolition role, including state of the art recycling capabilities at its HQ in Croydon. Michael said: "We originally started processing

our own demolition waste at the site but soon developed a market taking other contractors' waste. Such is the success of the facility that six years ago we

invested several million pounds in a Vecoplan-sourced processing plant which gives us the capability to turn incoming material into refuse derived fuel." ■

Bam Nuttall installs Kosran device

Construction company Bam Nuttall has installed a fleet management technology from Kosran to prevent unauthorised use of its mobile cranes on site.

The Kosran Safety Access Control (SAC) system is designed to stop theft and unauthorised use of plant machinery. It is linked to operators' training cards so that only qualified operators can use the equipment, a company spokesperson explained.

In addition, plant owners have control over who can use the machines by adding or deleting approved operators. They can also create a virtual perimeter of the area the equipment can work in and when it can operate. All this is achieved online via a computer, smart phone or tablet.

Steve Jarvis, BAM Nuttall Plant general manager, said, "We pride ourselves on providing the best plant equipment to BAM Nuttall and that also means employing best practice when it comes to the safe use and efficient working of that plant."

"Kosran is the market leader in preventing unauthorised use of plant machinery. It has a great reputation for both its product and service. We have been very pleased with its use on our crawler cranes and are now rolling it out to all our mobile plant, including our telehandlers."



CDE Global goes American

Washing specialist CDE Global has solidified its presence in the US marketplace with the establishment of a new office in Silver City, North Carolina and the development of a new website, www.cdeusa.com, specifically tailored towards this market. According to the company, success in North America, and along the East Coast in particular, has led to the formation of CDE Global Inc. The new base in North Carolina, and a new partnership with US operation American Crushers and Screens LLC, is intended to allow further growth throughout the USA

Tony Convery, chairman and founder of CDE Global, believes that the arrival of the company in the USA signifies a significant development of the washing and classification equipment available to that market. He said of the move: "We have spent considerable time in the US over the last 18 months and this has confirmed to us that there are huge opportunities for us to help operators to improve the efficiency of their operations."

CDE has appointed a dedicated sales team for the USA headed up by Kevin McNamee, business development manager for North America, who said: "Our success so far in the US market with construction and recycling projects has highlighted the requirement to have our full range of services located in-country. Our most recent North American project has been a 200 tph natural sand and gravel wash plant in North Carolina. The establishment of the new office provides a permanent base for our new US team, which will include technical, design, project management and sales functions. We are looking forward to a busy 2014 in the US, with the kick-off being ConExpo-Con/Agg in early March."

Major UK contract win for DKC

The Doosan Keltbray Consortium has been selected by Magnox as preferred bidder for nuclear decommissioning work at the latter's Trawsfynydd Nuclear Power Station in North Wales, UK, with mobilisation and preparatory work having already commenced. The contract, valued at £29 million (US\$46 million), is intended to be completed with the site entering its care and maintenance phase by 2016, well ahead of the date originally planned.

Work to be undertaken

covers the de-planting and demolition of the cooling ponds complex, covering the removal of pipework, tanks and cooling equipment, some of which has become radioactively contaminated during the station's operational life and earlier phases of demolition. The consortium has carried out similar work at other sites, including the de-planting of the boiler houses at Bradwell Power Station, completed a month ahead of schedule after two and a half years of work, during which



Phill Price, managing director for rail & infrastructure at Keltbray

250,000 man hours were recorded without a single lost-time incident.

According to Trawsfynydd Magnox site director Peter Burns: "Decommissioning the ponds complex is one of the major projects on the site and its completion will signify a major milestone in our journey to care and maintenance."

Keltbray's managing dDirector for rail & infrastructure, Phill Price, said of the contract: "the success of this project will rest on delivering a safe project, on time and to budget. However, a key element of our programme of works involves working with the local teams to look at how we create long term opportunities beyond the lifetime of the Trawsfynydd site. The Doosan Keltbray Consortium is committed to making this a reality." ■

New Russian dealer for Rammer brand

Sandvik has appointed Komek Machinery as official dealer for its Rammer brand hydraulic breakers. The move is intended to strengthen the brand's position in the Urals and western Siberia and at the same time provide better access to the range for customers throughout the country, supported by a high level of aftermarket support.

Komek, established in 2001, supplies a wide range of specialised equipment and attachments for the mining, oil, gas and construction industries and is now one of the largest construction equipment suppliers in the country.



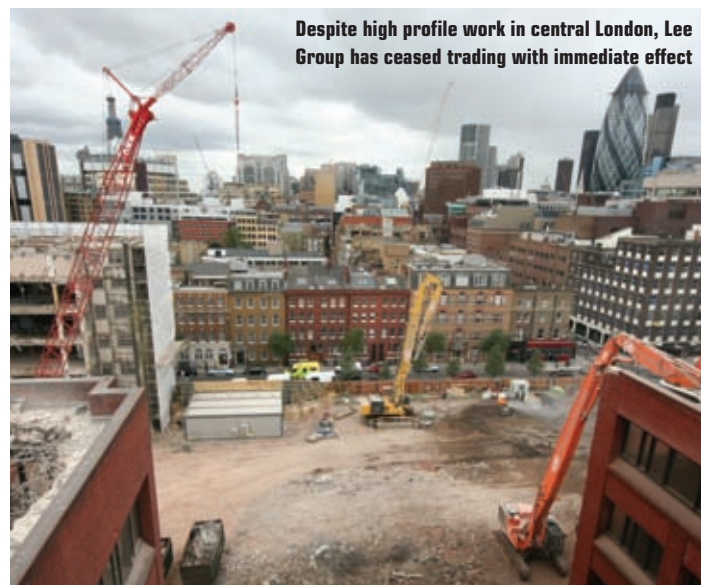
End of the road for Lee Group

UK contractor Lee Group has ceased trading with immediate effect with the loss of all 90 full-time and contract positions.

Reports suggest that the company's debts exceed £3 million (US\$4.9 million). Ranked at 52 in the 2013 *D&Ri100* with

a reported turnover for 2012 of £18.7 million (US\$30.6 million), the company entered a Company Voluntary Arrangement in September 2013 under which it could continue to trade and creditors would be paid a dividend of £0.23 in the pound for five years. This was an alternative approach to liquidation.

However, according to accountants Begbies Traynor there had been delays in customer payments and a declining turnover, which have together prevented the company from surviving. Begbies Traynor, with the support of HM Revenue & Customs, said to be owed £715,000 (US\$1.2 million), is reported as having petitioned for the liquidation of the company. ■



Despite high profile work in central London, Lee Group has ceased trading with immediate effect

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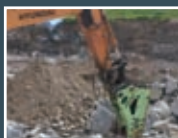
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Lessons to be learned?

Does onshore industrial decommissioning experience have something to offer to the offshore oil and gas industry as North Sea installations reach the end of their working life.

RVA's **Richard Vann** believes it does

The decommissioning of oil and gas facilities in the North Sea presents a huge challenge, quite literally, but drawing on the knowledge and experience of land-based consultants and contractors could help smooth the process, argues Richard Vann, managing director of RVA Group.

In cost alone, it is projected that the cumulative expenditure on removing these outdated production platforms will be in the region of £35 billion (US\$58 billion) over the next 30 years. And given that this is still a relatively new industry, it is acknowledged that there

are considerable supply chain weaknesses and bottlenecks to overcome. Perhaps the biggest obstacle is the lack of engagement with those most able to help.

Traditional or onshore demolition is significantly more advanced and offers much in the way of knowledge and experience that offshore operators could draw on directly to potentially overcome some of the hurdles and issues currently being faced.

TECHNOLOGY

Things have come a long way since the days of sledgehammers and wrecking balls. Highly sophisticated techniques and

machinery are now used to decommission complex and hazardous sites and facilities over short, medium and long-term timescales. There are several major players in the UK – consultants, engineers and contractors – managing and undertaking multi-million dollar, large-scale, high-hazard and complex plant dismantling projects as a matter of routine across the globe.

So how do we take this capability and employ it in the offshore sector? Firstly, oil and gas companies need to recognise the developments made in the demolition arena over the last two decades. In particular, it needs to consider piece small dismantling as a mainstream approach over the traditional 'bring it back as it went out' methodology.

In practice, this means dismantling platform plant and equipment in-situ. Hazardous materials, including asbestos and NORM, can be removed offshore while waste streams can be segregated at source ready for processing and disposal onshore.

This piece small dismantling approach has several advantages, including the potential to reduce the cost of any one particular project. It provides for the opportunity to use or share resources over a number of gas or oil platforms in an economic and concurrent or consecutive sequence. Work can also be phased to maximise weather window efficiencies with the operator retaining a higher level of flexibility over the whole project.

Furthermore, piece small dismantling relies less on heavy lift vessels (HLV), so existing supply vessels and barges can be used for the



A typical example of a North Sea oil and gas installation. Many are now reaching the end of their productive life

majority of operations. It also provides opportunities to use a wider range of reception facilities and there are increased choices in the onshore disposal of arisings. Even if the HLV approach is selected for a platform, tackling 50 m (165 ft) tall structures weighing up to 30,000 tonnes and with a footprint of 70-80 m² (755-860 ft²) should not be underestimated. Here again the leading organisations from the traditional demolition industry will have a great deal to bring to the table.

ENGAGEMENT

So what is the next step? Richard would like to see a commitment from platform operators to seriously investigate piece small methodology. Improved engagement with onshore professionals and the contracting supply chain is also required, coupled with making use of the tried and tested good practice in the decommissioning, decontamination, dismantling and demolition industry.

Just like our colleagues out at sea, we fully understand the importance of balancing cost effective, innovative and pragmatic dismantling solutions with EHS excellence. There is much invaluable knowledge and experience available from onshore that will translate and add considerable value to offshore dismantling programmes. ■

Richard Vann spoke on this topic at the Decom North Sea Decommissioning Conference held in St Andrews, UK, during October 2013





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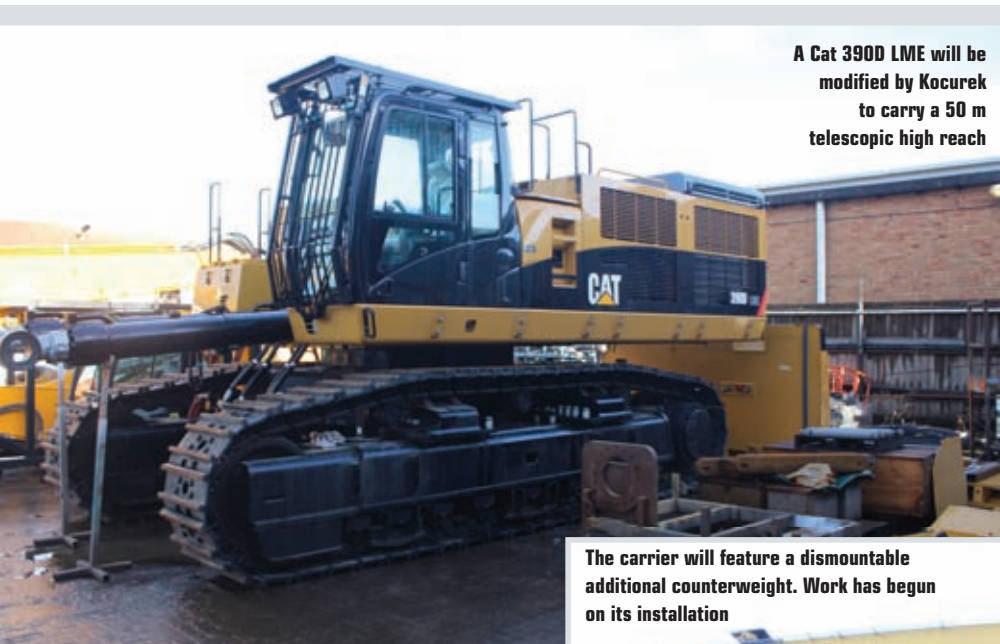
News of new demolition specification hydraulic excavators has been somewhat sparse in recent months, with modifiers around the world providing the majority of the headlines. **Lindsay Gale** reports on the sector



As with just about every construction equipment sector, it is engines that are driving the development, or rather the lack of it, where demo specification standard and high reach machines are concerned. To be more accurate, it is the latest round of emission regulations that are responsible for the relative quiet that has emanated from the main equipment manufacturers over recent months.

Compliance with Stage IIIB and Tier 4 Interim regulations has resulted in a spate of large and small standard machines over the last 24 months as the OEMs ensure that they have a product range that meets the requirements of these regulations. However, lurking in the wings are the even more stringent Stage IV/Tier 4 Final requirements that will begin to come into force in Europe, North America and Japan over the course of this year and next. This is certainly concentrating the minds of the OEMs as they work on incorporating all the additional elements required for compliance in the shape of various exhaust aftertreatment systems and >12

Volvo launched Stage IIIB versions of its 27.4 m (90 ft) EC480DHR and 21 m (69 ft) EC380DHR at the bauma exhibition in April 2013. Here the first EC470DHR is at work in Helsinki, Finland



A Cat 390D LME will be modified by Kocurek to carry a 50 m telescopic high reach

Russian giant

Kocurek Excavators is currently working on the modification of a Cat 390D LME on behalf of Russian dealer ST Machinery. Weighing in at 86 tonnes in its unmodified state, when completed it will carry a three stage telescopic boom, intermediate and dipper to give it a reach of 50 m (164 ft), making it the biggest high reach in the country when delivered.

At the time of *D&Ri's* visit, the carrier was largely in its unmodified state, although work has already commenced to fit its additional dismountable rear counterweight. When complete, it will feature all the usual elements of Kocurek's ultra high reach machines, namely a hydraulic boom connect system, tilting cab and a hydraulically extending undercarriage with wider tracks.

The high reach boom elements for the new high reach have already been fabricated and are currently in the Kocurek facility awaiting the carrier's completion, which is expected to be towards the end of March. *D&Ri* hopes to visit to see the machine in its final form.



The carrier will feature a dismountable additional counterweight. Work has begun on its installation



The boom is almost ready for installation - the main boom, intermediate and upper dipper arm await the carrier's completion

other additional components that need to be squeezed into already confined engine bays on their machines.

Given that the number of demo spec'd and high reach machines sold annually around the world is tiny in comparison to the volume of standard excavators – precise sales figures are not available – it is hardly surprising that manufacturers are likely to be waiting to get their Stage IV/Tier 4 Final offerings ready before beginning the development of what are firmly low volume niche products for our industry, using these models for the carrier.

IIIB EXCEPTIONS

As always, there are exceptions to the rule and in this case they come from Volvo and Hitachi, respectively. Volvo launched Stage IIIB versions of its 27.4 m (90 ft) EC480DHR and the 21 m (69 ft) EC380DHR at the bauma exhibition in April 2013. The first of the larger of the two machines was officially handed over to Finnish customer Delete at the show, with its first outing in Helsinki being the subject of a site report in this magazine (see *D&Ri*, Sept-Oct 2013, p19).

Hitachi's IIIB machine starred in another site report in the same issue where the first ZX470-5LCH in Germany was working on a residential redevelopment in Munich in the hands of German contactor B Trinkl (see page 16). Stage IIIB compliance is a necessity for machines working in that city, hence the reason for Trinkl's acquisition of this latest generation Hitachi. The ZX470 high reach has a pin height of 25 m (82 ft) with a 2.5 tonne tool maximum.

It is reasonable to suppose that when the next engine evolution is achieved and OEMs have carriers available with Stage IV/Tier 4 Final compliance, development work will start on the next generation of demolition specification standard machines and their high reach variants. *D&Ri* will be there to report.

It is those companies that carry out

>15

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Work has begun at Kocurek's facility to convert a Hitachi ZX470 carrier to turn it into a true multicarrier to allow it to mount the multiplicity of booms planned by Kiesel

the modification of standard machines to meet specific customer requirements that are currently making the headlines. One dominant trend is emerging in their efforts and this is 'carrier flexibility'. Carrying out the necessary modifications to a new standard carrier to suit the demanding demolition function turns the machine into a premium product, with an attendant hefty purchase price, and end users are therefore naturally eager to get the maximum usage out of any machine that is possible.

When high reach excavators first emerged from modifiers and OEMs alike, they were dedicated machines that could only be used in that role. Over time, coupling systems were developed to allow them to be used in both high reach and standard boom configurations, with change-over times coming down over the years to, in some cases, less than half an hour on today's modern machines.

The last two years have seen this need for flexibility addressed even further by the development of new concepts to the point where a single carrier can be supplied with a range of front ends that allow it to be used across a number of different applications in addition to the demolition and standard dig applications. One company at the forefront of this is the UK's Kocurek Excavators, based in Ipswich. In 2013, working together with UK demolition contractor Armac, who was the driver behind the project, it developed what is now known as the ABC concept. This consists of a single carrier than can be equipped with three different front ends that provide variable working heights and tool sizes in addition to a standard dig boom. This allows the machine to be tailored to the application, but more importantly, only the single carrier is required for four potential applications if all boom configurations are available.

Kocurek is also working on the conversion of a Hitachi ZX350LC for UK contractor Micor

MULTI CARRIERS

And the flexibility concept is being taken a massive step further by Kocurek working in partnership with German Hitachi dealer Kiesel. The result is a single carrier, in the first instance a Hitachi ZX470LC, that is able to carry an even wider range of booms for a variety of different applications for German customer AWR. It is the first in what will be known as the KMC470-BTV range. KMC is the acronym for Kiesel Multi Carrier, with the B standing for the OilQuick boom connect system, T for the Tritech three cylinder quattro valve lift system and V for variable undercarriage. The idea is that every 470 produced will have the same stub boom with the OilQuick and three lift cylinders. The three cylinders provides the necessary power when in demolition mode but when in standard mode, the Quattro speed valve takes away some of the power and allows the

German Cat dealer Zeppelin has reportedly sold at least four 349E UHD high reaches to demolition contractors around Germany. The machine has a pin height of 29 m (95 ft), can carry a 3 tonne tool at that height and has been fitted with a hydraulic extending undercarriage. It features a hydraulic boom coupling system and all hydraulic hoses have quick couplings, allowing boom changes to be made in just 10 minutes. Dutch modifier STC conducted the engineering design of the boom and hydraulic systems, with all fabrication work and hydraulic system production carried out at its Coevorden facility in the Netherlands.





Three Rusch RS4500s are working on a mosque demolition in Mecca, Saudi Arabia – the machines were supplied in November despite Rusch Special Products entering insolvency earlier in the year (courtesy of Hélène de Bruijn Fotografie, Netherlands)

machine to work at the same speed. Many of Kocurek's modified machines feature larger cylinders to provide the power in demolition mode but which mean that the machine operates more slowly when in standard mode.

Kiesel and Kocurek are currently developing a range of front ends for the carrier – a standard backhoe arm, a two piece stub boom with a standard dipper, a two piece with a heavy duty dipper to carry a heavier tool, a 18 m (59 ft) two stage high reach, a 26 m (85.3 ft) high reach, a 30 m (98.5 ft) high reach, a 34 m (111.5 ft) telescopic high reach, an 18 m long reach, a 20 m (65.6 ft) long reach, a 22 m (72.2 ft) long reach, a 30 m telescopic dipper and a material handling arm as well.

A 34 m high reach on a carrier the size of a Hitachi 470 is possible through the use of a fully extending undercarriage – both in terms of track width as well as full hydraulic extension. The OilQuick system and the three lift cylinders also add considerable additional weight to the carrier in the right places. Together, these two factors allow the use of a relatively longer arm.

In addition, work is being carried out to apply the concept to Hitachi's ZX350 machine to turn it into the KMC350-BTV – this has a stub boom similar to that on the 470 machine that will be able to carry a standard backhoe, heavy duty two piece, two stage high reach, 21 m (69 ft) high reach, 24 m (78.8 ft) high reach, 16 m and 18 m long reach, 25 m (82 ft) telescopic dipper and a material handling boom.

Initially where the 470 is concerned, because it needs a full undercarriage, boom fabrication and carrier modification will be carried out by Kocurek. The first machine will then be transported to Kiesel, who will then install the hydraulic system using the highest quality components possible since the machine will be supplied to AWR with an extended warranty.

When the second is ordered, Kocurek again will carry out the necessary carrier modifications, but Kiesel will send all the hydraulic components used on the AWR machine to Ipswich, where Kocurek will carry out all assembly and testing. It is this production route that all further KMC470 machines will follow.

With the KMC350 machines, all modifications will be undertaken at Kiesel's



Liebherr has modified an R 974 C demolition specification excavator to allow it to carry a 13,410 kg (29,500 lb) La Bounty MSD 7500 R shear for French contractor Brunel Demolition that will find use during the demolition of power stations. In addition to the usual tilting cab and extending undercarriage, the new machine features a mechanical quick coupler system for the boom that allows an attachment change in just 10 minutes. Liebherr says that the demolition versions of its excavators will be delivered with a Stage IIIA/Tier 3 engine until the end of 2015.

own engineering facility to avoid unnecessary transport costs.

Orders have been placed for these numerous different front ends to be produced by Kocurek over the course of 2014 as stock for Kiesel, who is confident that they will be sold on the basis of enquiries that have been received to date. Kocurek reports that everything it has produced to date in Ipswich for Kiesel for stock has been sold before it has been completed. However, two KMC350 machines have already been converted, with five more base machines ordered with various front ends. Where the KMC470 is concerned, four have already been ordered for 2014, with the one currently at Kocurek the first of these. According to Kocurek, all these further orders are for delivery in the first half of the year, so the total demand for 2014 delivery is likely to be even greater.

KEEPING THEM WORKING

Kiesel are pushing to sell the concept outside of Germany, although this raises the issue of service and support, since the machines will be marketed and sold as KMC rather than Hitachi. However, the warranty issues with the carrier could be dealt with by the relevant national Hitachi dealer, with Kiesel supplying the service and support of the booms and associated hydraulics and OilQuick systems, perhaps through the Terex Fuchs dealer

network (Kiesel is a German dealer for this brand). Should KMC machines be sold into the UK market, the service and support would be handled by Kocurek from its Ipswich base. The experience it will gain while carrying out the installation of the various systems of the KMC470 would obviously be invaluable in this regard. However, the OilQuick system itself is not as popular in the UK as it is in Germany, in part because of its cost, and that might well impact on the acceptance of the concept. So it may be early days for the KMC concept outside of the German speaking region of Europe.

Nevertheless, it is clear that KMC and other similar concepts, such as Kocurek's own ABC, look likely to change the face of the mid sized demolition excavator sector. Buying one modified carrier with a selection of front ends that can be used across the full spectrum of applications to be found in the sector obviously offers substantial economic benefits over the cost of three or possibly four machines that can only be used in one or two, especially when the carriers themselves are the volume end of the machines that find their way into our industry.

The only negative then could be that the volume of work encountered at any one time for a contractor might well be greater than a single machine and operator could handle, but that might not really be a bad position to be in!

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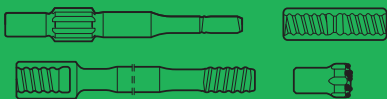
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ConExpo days

2014 will open with the largest show of the year, ConExpo-Con/Agg, held as usual at the Las Vegas Convention Center during the first week in March. **D&Ri** reports on the latest offerings that will be seen on the various stands of interest around the showground

The organiser, AEM, states that there will be 2,400 exhibitors attending the event, exhibiting major new products and technologies for every major construction industry sector including asphalt, aggregates, concrete, earthmoving, lifting, mining, utilities and more.

AEM also forecasts that more than 130,000 attendees will be in attendance from contractors, dealers and distributors to service providers, engineers, producers,

municipalities and more, from around the world. The event programme also features a comprehensive education programme during the five-day exhibition, with sessions focussing on industry issues and trends, management and applied technology.

RINGING THE CHANGES

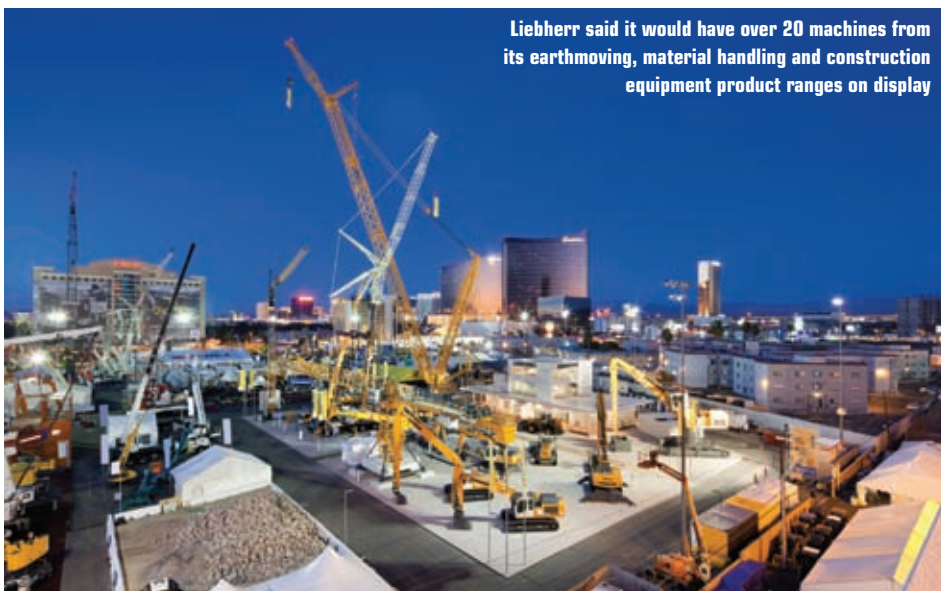
One focus for AEM during the planning of the event was the need to make it easier and less tiring to get around the various halls



Tier 4 Final-compliant equipment on show on Caterpillar's stand will include the new 966M wheeled loader

and outside lots that make up the event. With this in mind, the AEM will have an improved shuttle service operating around the show, have developed an enhanced mobile navigation smartphone app, will have knowledgeable onsite guides available to answer any questions attendees might have

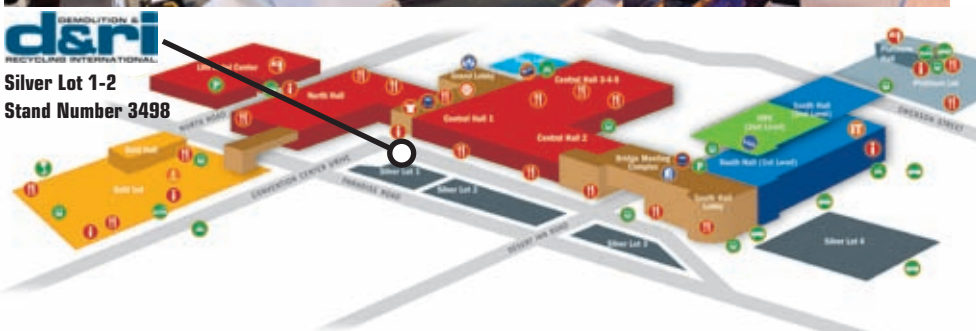
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Liebherr said it would have over 20 machines from its earthmoving, material handling and construction equipment product ranges on display



Silver Lot 1-2
Stand Number 3498



ConExpo-Con/Agg fundamentals

VENUE

Las Vegas Convention Center, Las Vegas, Nevada, USA

OPENING TIMES

Tuesday, March 4 - Friday, March 7:
9 am to 5 pm
Saturday, March 8: 9 a.m. to 3 p.m.

HOTELS

The organisers have negotiated discounted rates, available exclusively to attendees and exhibitors, at selected 'Official Show Hotels' in close proximity to the Las Vegas Convention Center. Hotel reservations must be made through the show housing programme to receive the discounted rates – go to: www.conexpoconagg.com/Hotel/

and, finally, have developed new internal routes between product areas to speed up moving between them.

In addition, a new Platinum lot has been developed, located directly across from the South Hall that provides 36,000 m² (387,000 ft²) to house equipment for aggregate



Liugong said it would present a new Tier 4 Final-compliant skid steer loader in the form of the 375B

processing, asphalt paving, drilling, and more.

Finally, and most importantly for the demolition industry and its related recycling sectors, a Demolition and Recycling Pavilion has been created specifically for our sector that will promote the best in safe and economically feasible recycling of recoverable construction and demolition materials, and allow you to view the latest technologies with the minimum of effort.

TIER 4 IMPACT

A major theme of the 2014 show is certain to be Tier 4 Final launches – manufacturers introducing construction equipment fitted with new engines that comply with the even more strict exhaust emissions regulations that came into force at the start of the year.

The US Tier 4 Final, the broadly equivalent European Stage IV and the Japanese Tier 4 B legislation will see another reduction in nitrous oxide on top of the cut in particulate matter that



Kobelco plans to launch its SK55SRX mini excavator – a 5 tonne class machine – at the show



Volvo said ConExpo 2014 would set the stage for the launch of its Tier 4 Final/Stage IV engine technology as well as its “most innovative range of machines and services to date”

was achieved under the previous set of regulations. The 2014 laws will see PM and NOx emissions reduced to levels similar to the ambient atmosphere, essentially meaning zero pollution. For the EU and USA, engines rated between 130 and 560 kW will be affected in 2014 and the 75 to 130 kW power band will have to comply from 2015. Japan's Tier 4 B starts to take effect in 2015.

New machines boasting the latest engines will be a major theme on the Caterpillar stand. Tier 4 Final-compliant equipment on show will include the manufacturer's new 966M, 966M XE, 972M and 972M XE wheeled loaders, which have bucket capacities ranging from 2.5 to 9.9 m³ (88.3 to 350 ft³) as well as the 980M and 982M wheeled loaders, which

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Showtime highlights

ConExpo exhibitors of most interest to the demolition and associated recycling industries.

EXHIBITOR	BOOTH	EXHIBIT AREA	EXHIBITOR	BOOTH	EXHIBIT AREA
Ajax Tool Works Inc	H-449	LVH Pavilion	Bell Equipment Company	S-4100	Silver Lot 1-2
Allegheny Trailer/Henry & Wright Corporation	S-6865	Silver Lot 4	Best Hammer Industries	S-3701	Silver Lot 1-2
Allied Construction Products LLC	C-30319	Central 1	Black Cat Blades Ltd	C-31119	Central 1
Allied-Gator Inc	N-11665	North Hall	Blasters, Inc	H-411	LVH Pavilion
ALLU Group Inc	G-2109	Gold Lot	Bobcat	G-1501	Gold Lot
American Eagle Manufacturing LLC	C-53198	Central 3-5	Breaker Technology Consolidated	C-50327	Central 3-5
AMI Attachments Inc.	C-40654	Central 2	Brokk Inc	P-8547	Platinum Lot
Anaconda Equipment International	C-51404	Central 3-5	Brunner & Lay	C-51514	Central 3-5
Anaconda USA	P-8037	Platinum Lot	Cangini Benne SRL	S-4486	Silver Lot 1-2
Aqua Blast Corporation	C-53154	Central 3-5	Case Construction	N-12012	North Hall
Arrowhead Rockdrill Company Inc	S-4480	Silver Lot 1-2	Case Construction Equipment	N-11722	North Hall
Arsenault Associates	S-65734	South 1-2	Caterpillar Inc	N-10915	North Hall
Aspen Custom Trailers	N-13002	North Hall	Caterpillar Inc	G-1015	Gold Lot
Astec Inc.	C-50327	Central 3-5	CDE Global	P-9009	Platinum Lot
Astec Industries Inc	C-50327	Central 3-5	CDE Global Limited	C-51404	Central 3-5
Astec Mobile Screens	C-50327	Central 3-5	Chicago Pneumatic	C-51917	Central 3-5
Atlas Copco	C-51923	Central 3-5	Combi Wear Parts Inc	C-30906	Central 1
Atlas Maschinen GmbH	S-4054	Silver Lot 1-2	Company Wrench	C-40342	Central 2
AUSA	S-6736	Silver Lot 4	Continental Conveyor (See Joy Global)	C-51879	Central 3-5
Bad Dog Tools	S-61302	South 1-2	Cormidi USA	S-3600	Silver Lot 1-2
Bad Dog Tools	P-9238	Platinum Lot	Crusher Wear Parts	C-53102	Central 3-5
Badger Equipment Company	G-2115	Gold Lot	D & A Heavy Industries Co Ltd	G-70215	Gold Hall
			D&RI	S-3498	Silver Lot 1-2 >



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- ▶ Detachable 2.44m x 1.2m (8' x 4') single deck screen returns oversize material back to the crusher via the on-board recirculating system.
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can carry buckets with capacities of between 4.2 and 14 m³ (148.3 to 494.4 ft³).

Caterpillar's new C-Series articulated dump trucks – the 23.6 tonne capacity 725C, 28 tonne capacity 730C, and its ejector body counterpart, the 730C EJ – will also be on show. All the models are available with either US Tier 2/EU Stage II equivalent, Tier 3/ Stage IIIA equivalent, or Tier 4-Final/Stage IV compliant engines to meet a range of emissions standards.

The same engine options are available for the company's new rigid haulers that will also be introduced at the show in the form of the 36.3 tonne payload 770G and 47.1 tonne payload 772G. Other new equipment on Caterpillar's stand will also include four new D Series skid steer loaders, a new range of compact tracked loaders and multi terrain loaders.

Meanwhile, Liebherr said it would have over 20 machines from its earthmoving, material handling and construction

JCB will launch a new, Tier 4-compliant rough terrain fork lift range



Case Construction Equipment plans to introduce a new range of crawler dozers

equipment product ranges on display – including its latest Tier 4 Final engine, which uses selective catalytic reduction to comply with the new regulations.

Construction equipment being showcased will include the 50 tonne class R956 excavator, 25 tonne class PR 736 dozer, LH 40 M and LH 60 C material handlers, LB 44-510 rotary drilling rig and THS 110 D-K crawler concrete pump.

In addition, Liebherr will have a range of cranes on display,

including its LTM 1300-6.2 all-terrain crane, which showcases its single-engine drive concept.

Volvo CE also said ConExpo 2014 would also set the stage for the launch of its Tier 4 Final/Stage IV engine technology as well as its “most innovative range of machines and services to date”. It was staying tight-lipped on the exact details, but said new equipment on show would include a new generation of E-Series excavators, G-Series articulated haulers and H-Series wheeled loaders – all Tier 4 Final compliant.

In addition, Volvo CE plans to exhibit its latest ranges of backhoe loaders, motor graders and skid and tracked loaders in what it said constituted a complete renewal of the company's core product offering.

Liuogong in turn said it would present >24

EXHIBITOR	BOOTH	EXHIBIT AREA
Daedong Engineering	S-63244	South 1-2
Daemo Engineering Ltd	G-2844	Gold Lot
D&Ri	S-3498	Silver Lot 1-2
Dieci North America	G-2175	Gold Lot
Ditch Witch	S-62216	South 1-2
Doosan Infracore Construction Equipment	G-1501	Gold Lot
Doosan Portable Power	G-1501	Gold Lot
Dust Control Technology	H-711	LVH Pavilion
Eagle Crusher Company Inc	C-52156	Central 3-5
Edge Innovate	P-9338	Platinum Lot
EDGE Innovate Ltd	C-51605	Central 3-5
Feel Industrial Engineering Co., Ltd.	S-63340	South 1-2
Furukawa Rock Drill, USA	C-30539	Central 1
Geith	N-12310	North Hall
Genesis Attachments	N-12006	North Hall
Goldhofer Aktiengesellschaft	G-2836	Gold Lot
Golight Inc	S-61406	South 1-2
Gorilla Hydraulic Breakers	C-51510	Central 3-5
Gradall Industries, Inc.	G-1314	Gold Lot
Grasan Equipment Company	C-51380	Central 3-5
Grinder Crusher Screen, Inc.	C-51835	Central 3-5
Grinder Wear Parts & Apollo Equipment	S-3191	Silver Lot 1-2
HARTL Engineering & Marketing GmbH	S-4148	Silver Lot 1-2
Hensley Industries Inc	C-30520	Central 1
Hidromek	S-3005	Silver Lot 1-2
Hilti Inc	S-4754	Silver Lot 1-2

EXHIBITOR	BOOTH	EXHIBIT AREA
Hitachi Construction Machinery Company	N-12621	North Hall
Hydraulic Breaker Services LLC	C-40436	Central 2
Hydro-Ram	P-9222	Platinum Lot
Hyundai Construction Equipment	N-10052	North Hall
ICS Blount, Inc.	S-6665	Silver Lot 4
Inan Makina A.S.	S-3810	Silver Lot 1-2
Indeco North America	N-10676	North Hall
International Society of Explosives Engineers	L-20112	Grand Lobby
IROCK Crushers, LLC	C-52972	Central 3-5
JCB Inc	G-1559	Gold Lot
Jewell Attachments LLC	N-12006	North Hall
Jisung Heavy Industry Co Ltd	S-63343	South 1-2
John Deere Construction & Forestry Company	N-12621	North Hall
Kawasaki Wheel Loaders	C-40042	Central 2
Keestrack	P-9279	Platinum Lot
KHL Group	S-3498	Silver Lot 1-2
Kinshofer NA	S-3510	Silver Lot 1-2
Kobelco Construction Machinery USA	S-4408	Silver Lot 1-2
Komatsu America	N-10016	North Hall
Komplet Italia srl	C-50059	Central 3-5
KPI-JCI	C-50327	Central 3-5
Kubota Tractor Corporation	C-30004	Central 1
LBX Company LLC	G-1075	Gold Lot
Leading Edge Attachments Inc	C-31040	Central 1
Liebherr Construction Equipment Co.	G-2155	Gold Lot



Wacker Neuson said it planned to introduce a variety of new products at the show

Bobcat is to launch its first Tier 4 Final-compliant compact loaders – the new 500 series



The SuperStacker will be just one of six units from KPI-JCI and Astec Mobile Screens on show on the Astec stand

a new Tier 4 Final-compliant skid steer loader in the form of the 375B. This 865 kg machine can lift to a dump clearance height of 2.2 m (7.2 ft) and boasts a 0.45m³ (15.9 ft³) capacity bucket as standard. In addition, the 842III and 888III wheel wheeled loaders and 922D and 950E excavators will be on show together with

its 612H roller, two 2025H (LPG) forklifts and two dozers from its Dressta brand.

Kobelco also plans new launches at ConExpo, including its SK55SRX mini excavator – a 5 tonne class machine boasting a 27.5 kW (36.9 hp) engine that meets Tier 4 Final requirements. Product information on the manufacturer’s full line of excavators in the 1.3 to 82 tonne weight classes will also be available.

JCB will be at the show as well, and said it would launch a new, Tier 4 compliant rough terrain fork lift range. Fitted with the manufacturer’s new 55 kW (73.6 hp) Exomax diesel engine, the 926, 930, 940 and 950 fork lift models are said to boast improved fuel consumption and lifting capacities of between 2.6 tonnes and 4.5 tonnes, with maximum lift heights of between 3.6 and 6.7 m (11.8 and 22 ft).

Case Construction Equipment has also released details of a new range of crawler dozers it plans to launch at the show – the six-model M Series. The manufacturer added that other major new product introductions were planned for its heavy equipment line,

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EXHIBITOR	BOOTH	EXHIBIT AREA
Link-Belt Construction Equipment Company	G-1747	Gold Lot
Liugong Machinery Co., Ltd	N-12166	North Hall
Lynx Attachments	C-51310	Central 3-5
Maeda Seisakusho Co Ltd	S-3211	Silver Lot 1-2
Magnum Attachments Inc	C-30740	Central 1
Major Wire Industries Ltd.	C-52456	Central 3-5
Manitou Group	N-12605	North Hall
Martin Engineering	C-52990	Central 3-5
MB America Inc	S-4280	Silver Lot 1-2
McCloskey International Ltd	P-8622	Platinum Lot
Metso	C-50979	Central 3-5
Montabert	N-12310	North Hall
MSB Corporation	G-70316	Gold Hall
Mustang Manufacturing	N-12605	North Hall
NLMK Clabecq s.a.	S-6365	Silver Lot 4
NPK Construction Equipment, Inc.	C-30140	Central 1
Nylacast Ltd.	C-40527	Central 2
Okada America	C-30734	Central 1
Paladin	N-12203	North Hall
Ramco Construction Tools Inc	C-51314	Central 3-5
Rockster Recycler GmbH	P-8464	Platinum Lot
Sandvik Construction	C-50309	Central 3-5
Sandvik Construction	P-9310	Platinum Lot
Screen Machine Industries	C-52760	Central 3-5
Screen USA Inc	C-51836	Central 3-5
Sennebogen LLC	S-4264	Silver Lot 1-2
Simex, srl	S-4191	Silver Lot 1-2

EXHIBITOR	BOOTH	EXHIBIT AREA
Striker Hydraulic Breakers/ Toku-America, Inc.”	C-40456	Central 2
TABE	P-9579	Platinum Lot
Takeuchi	C-30706	Central 1
Talbert Manufacturing Inc	G-2474	Gold Lot
Telestack	C-53192	Central 3-5
Telestack Ltd.	P-7009	Platinum Lot
Telsmith Inc	C-50327	Central 3-5
Terex Corporation	G-1047	Gold Lot
Terex Washing Systems	C-51404	Central 3-5
Tesab Group	C-52686	Central 3-5
Tramac Corporation	N-12310	North Hall
Trevi Benne SPA	S-4290	Silver Lot 1-2
Vibra-Ram Inc	S-4391	Silver Lot 1-2
Volvo Construction Equipment NA, Inc.	N-10951	North Hall
Volvo Construction Equipment NA, Inc.	G-1300	Gold Lot
W.S. Tyler	P-7401	Platinum Lot
Wacker Neuson Corporation	S-4452	Silver Lot 1-2
Wildcat Rock Drilling Tools/ Kwang Sung GM	P-8276	Platinum Lot
Wirtgen America Inc	C-51021	Central 3-5
Wyco Tool Company (The)	S-5819	Silver Lot 3
Xtreme Manufacturing	S-4224	Silver Lot 1-2
Yanggu Haoquan Rock Tools Co., Ltd.	H-208	LVH Pavilion
Yanmar America Construction Equipment	G-1517	Gold Lot



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including updates to excavators, wheeled loaders and compactors.

As far as the new dozers go – the 22 tonne class 2050M, 18 tonne class 1650M, 15 tonne class 1150M, 10 tonne class 850M and 9 tonne class 750M – Case said the range boasted fuel savings of up to 14%.

Wacker Neuson says it also plans to introduce a variety of new products at the show, including a new range of skid steer and compact tracked loaders. It said four new models would be available through the company's US and Canadian distributor network starting in mid-2014 – two wheeled skid steer models, the SW 24 and SW 28, and two compact track loaders, the ST 35 and ST 45.

Like others, Wacker Neuson said it would reveal more details of these new launches at the show. In addition to the new compact loaders and skid steers, it also plans to introduce a new mini excavator in the shape of the 1 tonne class 803. It said this machine could fit through standard interior doors and was available with a dual power option – it can be changed from diesel to electric power for use indoors.

Other new machines on show from the company will include an ET 20 compact tracked excavator, examples from its latest generation of vibratory rammers and new compaction control technology known as Compatec for its DPU 6555Hec reversible plate, among others.

Doosan and subsidiary company Bobcat will also be present at the event, and Tier 4 Final launches will be a major theme of new launches for them as well. Doosan said it would reveal its new Tier 4 Final-compliant machines on the first day of the show, but said its stand would also feature a number of recently launched Tier 4 Interim/Stage IIIB compliant excavators and wheeled loaders, including the new DX140LCR-3 crawler excavator, the DX190W-3 wheeled excavator and the DL200-3 wheeled loader.

For its part, Bobcat plans to launch its first Tier 4 Final-compliant compact loaders – the new 500 series. The S510 and S550 skid-steer loaders have a radius lift path, while the new S530, S570 and S590 skid-steer and T590 compact tracked loader models feature a vertical lift path.

All the new machines feature a protection system that monitors, manages and shuts down the engine if needed. This technology monitors engine coolant and oil temperatures,



CDE Global will launch the M4500 portable wash plant at the show



Major Wire will be showcasing its Flex-Mat 3 – high-performance screen media that it claims is significantly increasing production in a wide range of screening operations



Rockster Recycler will use ConExpo to introduce its latest compact tracked impact crusher in the form of a hybrid unit that has been developed for a French construction company. Based on its R1100D unit, the new machine features a diesel engine operating at a nearly constant optimal speed to drive a generator that in turn powers an electric motor. Permanent-magnet technology guarantees a decrease of energy consumption, better engine and generator performance and maximum performance density with lower weight and smaller components. Any load peaks are cushioned by condensers that buffer the energy. Fuel consumption is reduced and through the use of virtually maintenance-free electric motors, maintenance costs are minimised. Rockster claims that up to 16,000 litres of diesel can be saved annually using this technology.

and will manage engine systems to reduce the potential of these fluids reaching a temperature point where the machine has to be shut down. This is intended to minimise potential damage to the engine, stop unnecessary engine wear and keep operators working.

CRUSHING & SCREENING

From bucket attachments through to full size plant, there will be plenty on show for those looking for the latest crushing and screening equipment.

Attachment specialist Allu will be

A highlight of the show will be Metso's new ST2.8 mobile screen



showcasing a new concept at the event that although designed for the mining industry, may prove of general interest in the shape of its M-Series mobile Screener Crushers that consists of three models for excavators from 50 to 200 tonnes and three models for wheeled loaders from 30 to 100 tonnes. In addition, the company's DL light Screening Buckets will be enhanced by the launch of three new units to broaden the coverage of the range from 4 to 14 tonne excavators and 2 to 8 tonne loaders.

CDE Global will use the show for the formal launch for the new M4500 wash plant for construction, mining, recycling and industrial sands applications. According to

>28



Terex Finlay will introduce two new machines – the J-1170 primary mobile jaw crusher and the 684 tracked mobile inclined screen



Powerscreen is launching three new products onto the North American market, including the Warrior 2100

the company, with a capacity of 450 tph the M4500 portable wash plant is a revolution in modular washing equipment offering feeding, screening, sand washing and stockpiling on a compact chassis and enabling the production of four products to a required specification.

KPI-JCI and Astec Mobile Screens will have six units on the Astec stand. These will consist of the new-generation SuperStacker, the new Kodiak Plus K500+ cone crusher, the Series 9000 dewatering screen that is the latest addition to the range, a redesigned high frequency screen for the industrial sands market, the FT2650 jaw crusher with pre-screen option and the new generation 3055 Vanguard jaw crusher.

Cemco meanwhile will be showing its new



Sandvik's CH550 stationary crusher will be a feature on the company's stand

Terex Washing Systems will be showcasing its latest Aggresand unit, the 206



Turbo 80 vertical shaft impact crusher that it says is ideal for a wide range of applications in the aggregates, energy production, mining and recycling fields.

Grasan will use the show to highlight its '7 Points Design/Build Philosophy' for customised crushing and screening systems. This is customer focussed, with the company working with each customer to design all or part of a system to ensure it performs precisely as required.

And Major Wire will be showcasing its Flex-Mat 3 high-performance screen media that it claims is significantly increasing production in a wide range of screening operations. Flex-Mat 3 is available in both tensioned and modular panels so woven wire, polyurethane and rubber users can benefit from its non-blinding and pegging capabilities while also increasing in-spec production, according to the company.

Metso said the highlight on its booth would be a new two-in-one mobile Lokotrack screen, the ST2.8, that has been specifically designed to work together with its Lokotrack LT106 mobile jaw plant (which will also be on show). It said more details of the new model would be revealed during the exhibition. Other technology on display will include the company's HP3, part of its new generation of high-performance cone crushers.

Powerscreen plans to launch three new machines at the exhibition – the Premiertrak 300 jaw crusher, Trakpactor 320SR impact crusher and Warrior 2100 screen.

Terex Finlay will in turn introduce two new machines – the J-1170 primary mobile

jaw crusher and the 684 tracked mobile inclined screen. The J-1170 is a high built around Terex's 1.1 x 0.7 m (3.6 x 2.3 ft) jaw crusher and is targeted at recycling, aggregate production and mining applications. The 684 screen is built for working in quarrying, mining, construction and demolition debris, topsoil, recycling, sand, gravel, coal and aggregate applications and features three 4.3 x 1.7 m (14.1 x 5.6 ft) screening decks.

Terex Washing systems will introduce the new Aggresand 206 washer, suitable for all industrial, construction, recycling and mining applications. This larger model shares all the modular features of the Aggresand 165 model launched in 2013, including ease of transportation, rapid set-up time, pre-wired and pre-plumbed and HMI Control System, says the company

Sandvik will also showcase new crushing and screening equipment, including its CH550 stationary crusher and its Q1451 mobile crusher and screener. It will also have other products on display, including its new 777 breaker, new RH series hammers and new DC125R drill rig.

D&Ri will provide a more in-depth report on these new products in the crushing and screening feature in the Mar-Apr 2014 issue, based on information we will gather at the show.

AND FINALLY...

Brokk will be introducing two demolition robots to the North American marketplace at ConExpo, where it will showing off its Brook 60 and Brokk 400D machines for the first time on the continent.

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Frank Tyler Whitcomb
Frank W. Whitcomb Construction Corp.
Colchester (VT)

„The fact that the Rockster crusher R800/900 can be switched from Jaw to Impactor made it an easy decision. The unique design of the duplex system allows us to get maximum utilization of the machine, as it can be used in various application from virgin stone to recycled asphalt and concrete. Three years and almost 4000 hours later the machine continues to perform and shock our customers with its production and material quality despite its compact size.“

Joe Collazo
Equip Sales & Leasing Corp., North Haven (CT)





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Making the most of waste

This special report details the entries that were shortlisted for the 2013 Recycling & Environmental Award. Unusually, the judges selected as the winner a system specially developed to process a particular hazardous waste that arises during demolition rather than making the award for a specific recycling project as has been the case in past years

Recycling is all about efficient use and reuse of valuable and sometimes scarce material resources allied to care for the environment in the process. In the five year history of the World Demolition Awards, the judging panel has usually opted to select a specific project as the winner of the Recycling & Environmental category.

In 2013, the mould was broken, with the jaward going to Danish contractor J Jensen A/S, who has developed a system in conjunction with surface cleaning specialist Omø A/S that allows the clean, controlled and contained removal of hazardous coatings, such as paint containing Poly-Chlorinated Biphenyls (PCBs) and lead



An efficient filter system is at the heart of the system that separates pollutants from the abrasive agent following coating removal



The resulting waste is packed into lined and sealed drums in the container

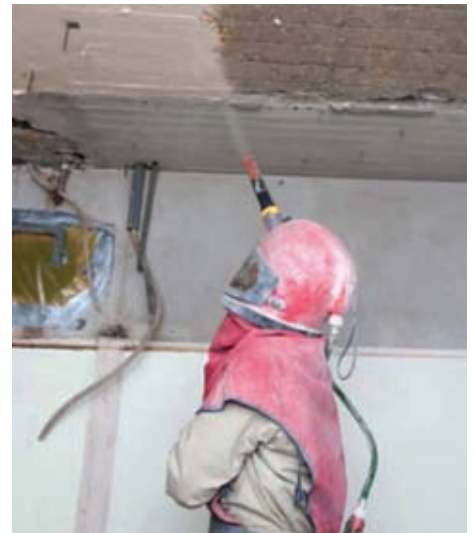
Poly-Chlorinated Biphenyls are named as being among the world's 12 most dangerous pollutants. PCBs were widely used by the construction industry in Denmark from 1950 to 1977, at which time their use was banned. Today, PCBs, along with lead, pose a major challenge when buildings dating from those years are being internally remodelled or totally demolished. Using traditional removal methods these substances can easily spread as dust in the atmosphere both inside and outside the building, and inhalation of these substances can be extremely hazardous to health, including the potential to cause brain damage.

Traditional techniques for removing such coatings frequently involves the use of blasting the surface to be cleaned with abrasive particles, which can create dust, noise and waste materials that have to be contained in some manner.

This offers the potential for the escape of potentially hazardous materials into the environment and a working environment that is far from ideal. In addition, methods for separating the toxic substances from the blasting media were not readily available.

J Jensen identified a solution from the USA called SpongeJet, where blasting was carried out using tiny sponge mushrooms, instead of sand, that absorb the particles of the coating being removed, thus minimising dust and other debris production. Subsequently J Jensen, working together with a French

company, developed a very effective carbon filter that efficiently removes the PCBs and lead absorbed by the sponge mushrooms. This system was then built into a container, which means that



Traditional surface cleaning methods risk both workers and passers-by to potential exposure to hazardous substances



J Jensen and Omø together developed a contained cleaning system that makes use of sponge 'mushrooms' as the abrasive agent

nothing escapes. The uniqueness of the J. Jensen and Omø closed system is that all dust and other hazardous vapours are directed into the container through the use of an Omø vacuum cleaning system. The PCB and lead removed by the filter from the sponge mushrooms can be packed into sealed and lined barrels directly from the container and the small sponge blasting media cleaned and reused. This means the solution also works on environmental clean-up and demolition will be significantly less risky for employees of J Jensen and Omø.

The system consists of three main elements. A Sponge-Jet feed unit provides a constant

>32

flow of the sponge mushrooms, which are available in different hardnesses and surfaces depending on the nature of the coating to be removed, to improve productivity and also controls the media mix and the pressure. The Sponge-Jet media classifier cleans and separates used blowing agent into three categories – oversize waste, small waste particles, dust and broken sponge, and recycled abrasive sponge. A control unit monitors the system to ensure efficient operation and automatically shuts the Sponge-Jet system down in the event of malfunction to prevent the potential release of hazardous substances into the atmosphere.

The two companies believe that the solution has international potential. A significant number of public and private buildings not only in Denmark but across Europe are contaminated with PCBs and lead. This suggests that there are great opportunities for this Danish invention. J. Jensen A/S and Omø A/S are already in discussions with potential partners around the world concerning the use of this system.

INNER CITY WORKING

In 2012, Cantillon Limited was appointed by Sir Robert McAlpine to deconstruct rather than demolish 29-37 Davies Street, Mayfair, London, a 7 storey building (including the basement) because of several environmental issues that needed to be considered - out-loading material arising from the deconstruction, noise from the work, the inevitable dust that would be created from a building some 100 years old, asbestos containing materials (ACM) and not least of all being able to manage a project of this size in one of the most congested areas in West London without causing a nuisance that would increase what is already a very real traffic problem. The location of the building required careful thought about how out-loading materials would be carried out, as can be seen from the location; directly behind the building were the Italian and Canadian Embassies and the Argentine Consulate, Grosvenor Sq. Garden to the west, New Bond Street and

Hanover Sq. just to the east and Grosvenor Street to the south. To the north end of Davies Street was a Crossrail Project Site that had to be brought into the project planning. It was crucial therefore that disruption to residents and local businesses was absolutely minimised – from start to finish.

The materials from which the structure was built were nothing out of the ordinary; brick, steel, concrete, glass, wood and other metals etc. However, what made this building a little more thought provoking was that several floors had much of their walls and ceilings painted in a bitumen paint that contained asbestos, acting as a fire retardant product. The problem lay in removing the ACM (which was deemed as non-licensable work) without allowing it become friable and therefore detrimental to the public who passed by the building (a major thoroughfare to Oxford Street to the north), of course to the wider environment itself, to contaminate other arisings from the deconstruction, that might be used on other construction sites after processing, and not least of all to operatives working on the project.

Cantillon utilises a range of innovative measures to significantly improve the control it has over noise production during work. With noise likely to be the main complaint area the company had to ensure that it was

reduced as much as possible. To establish the likely problem areas Cantillon created several 3D noise models predicting noise levels from the ground to 5th floor, showing at each height what the predicted levels were likely to be for the surrounding buildings.

This was completed before commencing work and buildings particularly susceptible to noise were identified. Reducing noise by engineering methods always comes second to eliminating noise through methodology; however in this instance Cantillon was unable to eliminate it all together. With knowing the buildings where noise was likely to be a problem; 29-37 Davies Street was encapsulated and instead of using just using fire retardant sheeting, Powerclad Acoustic sheeting (also fire retardant) was used and in places acoustic blankets were positioned to enhance attenuation further.

Removing the ACM was now the next issue to overcome. This had to done with the least amount of problems both to the public and wider environment and was achieved by treating it as Licensable Asbestos and enclosing all the areas where it had to be removed. This ensured that nothing would escape. Next Cantillon wanted to remove it using something that was environmentally friendly as possible and research identified a substance that was derived from citrus fruit, thus replacing substances such as chlorinated and kerosene based solvents. The substance

>35

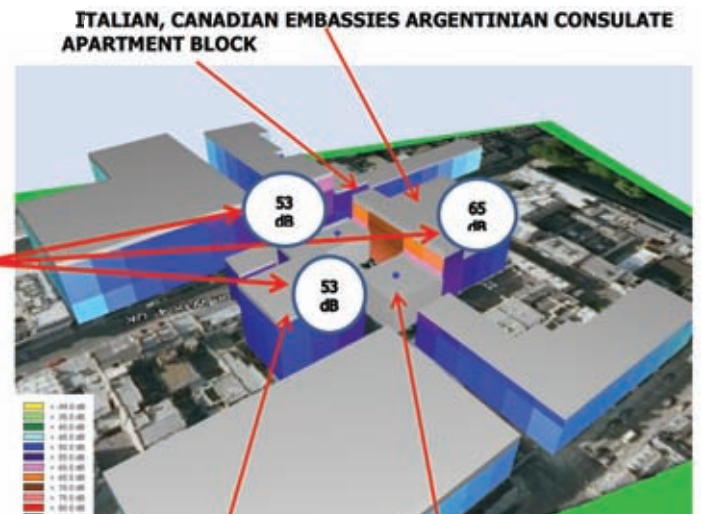


The location of 29-37 Davies Street in the heart of the city of London



The structure was a seven storey building (including a basement level)

Noise monitoring was an important feature of this project



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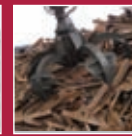
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softened the bitumen allowing it to be scraped off the surfaces but also keeping any asbestos fibres within the confines of the bitumen; This allowed the arisings to be easily packaged and sent away for disposal, eliminating environmental and indeed personal contamination. Although not possible in this case because of the asbestos contamination, in use the bitumen remover is also recoverable.

Materials resulting from the deconstruction weighed 8,792.51 tonnes, of which the project was able to recycle 8,787.41 tonne, giving a recycling rate of 99.94%, the other 0.6% was the ACM that is currently not recyclable.

Unfortunately due to the constricted nature of the site the client was unable to reuse any of the material arisings from the site and so all of it had to be shipped off site for processing.

DEMOLITION ART FORM

In an unusual project in the spring of 2013, Lloyd's Construction Services, Inc. (LCS) of Savage, Minnesota was able to showcase demolition as art. Given the opportunity, Lloyd's was able to not only have a positive environmental impact on the handling of demolition debris, but also to creatively take it a step above and beyond what most consider "reuse" and help to create expansive pieces of functional artwork that are available for the public to appreciate and interpret.

This past year LCS had the honour of working with world renowned artist Abraham Cruzvillegas to create his latest installation, The Autoconstrucción Suites. This politically charged exhibit located at the Walker Art Center in Minneapolis, Minnesota, is intended to shed light on the poverty experienced in the small town just south of Mexico City where Cruzvillegas grew up. His creations were intended to mimic the improvisation of construction practices commonly used in his village. In order to further educate viewers on his art, Abraham not only produced sculptures that represented these beliefs and experiences, but additionally utilised the performing arts as a supplement to his education initiative. The salvaged debris exhibited in his work doubled as a functional prop in public performances given. Finding reusable building material to create the pieces of artwork that Abraham Cruzvillegas had imagined became an extremely crucial step in achieving his vision.

In addition to supplying demolition waste for use in the installation, Lloyds also carried out work on the exhibition space itself



Ferma at Campbell Hall

In May of 2012 Ferma Corporation was contracted to demolish Campbell Hall, a 7 story concrete structure with a 3.6 m (12 ft) concrete overhang in the centre square at U.C. Berkeley, California, and located within the Strawberry Creek Protective Habitat. With this, and demolition being scheduled during the last month of school meaning heavy student traffic, dust suppression was of the highest importance. Water for dust suppression had to be monitored and prevented from entering the storm drains and creek that were located within 6 m (20 ft) of the building. Vibration monitoring was also needed due to the close proximity to other buildings housing scientific research projects. A 180 tonne excavator was used for the project, leaving little room for error due to its size.

After demolition was completed, excavation for the new building had to be carried out into the hillside. This excavation was within close proximity to a number of sensitive utilities, such as 0.9 m (3 ft) steam lines. This combined with the heavy student traffic made it difficult to transport the 5,352 m³ (189,000 ft³) of material off the site.

In just six weeks for the demolition and three weeks for excavation, the project was completed putting the general contractor two weeks ahead of schedule. The project was completed with no complaints or incidents, with 99.1% of all material being recycled.

A confined site and careful waste water management were major features of the demolition of Campbell Hall



As a selective demolition contractor in the Twin Cities metropolitan area, Lloyd's Construction Services, Inc. has established a strong and exclusive relationship with the Walker Art Center and is regularly called upon to complete the delicate work of dismantling galleries to make way for new exhibits. As the only trusted demolition contractor with this client, LCS was asked to not only perform the necessary demolition work to create the space for Cruzvillegas's installation, but was also asked to provide the reusable materials for his creation. Through the use of salvaging techniques on this and other recent projects, reclaimed debris was provided from stockpiled material that had been sorted and stored at LCS's local transfer facility.

Munich launch for Sennebogen

Sennebogen will use the forthcoming IFAT 2014 trade show being held in Munich, Germany, on May 5 – 9, 2014, to introduce its new E Series 818

Designed for all recycling and sorting tasks, the new E Series Sennebogen 818 joins the larger 821 and offers compact dimensions and optimised energy consumption values. It is available as a wheeled unit, on tracks or stationary with electric drive, and according to the company, provides an ideal solution for every material handling challenge.

Equipped with a 97 kW (130 hp) Cummins diesel engine that meets current Stage IIIB/ Tier 4 Interim emissions regulations, the 818 features a completely new design and optimised technology.

According to Sennebogen, during the development of this material handling machine particular priority was placed on offering a cost-effective alternative to larger material handling alternatives. The company claims that the machine is particularly well-suited for sorting and loading paper or for recycling materials from the waste

management industry. With various equipment lengths and ULM stick, the new 818 E-Series is ideal for these sorting tasks. With a space-saving length of 4.8 m (15.7 ft) and width of 3.6 m (11.8 ft), the 818 M can easily maneuver. It features a rear swing radius of less than 2.4 m (7.9 ft) to ensure safe working in the most confined spaces. Sennebogen is using the new maXcab for the first time in this machine class to offer the operator an ideal overview at a height of 5.5 m (18 ft) of the working environment thanks to factory standard surround-view cameras resulting in the highest level of work safety.

FLEXIBILITY

The equipment of the Sennebogen 818 is available in four variants offering a reach up to 10 m (30.5 ft). Only one boom and one stick cylinder are necessary in order to move all the equipment - an important advantage in terms of maintenance and ease of service. The arrangement of the cylinders below the equipment provides vulnerable seals additional protection against contamination due to falling particles and dust. At high dust burdens, optimised fan reversal ensures reliable cleaning of the radiator grill elements and the generously dimensioned radiator guarantees optimal heat dissipation. Safe working loads to 6 tonnes can be handled comfortably. The company's modular design principle ensures an optimal machine configuration and undercarriage

variants, from mobile to crawler drives to stationary solutions, offer individual equipment possibilities. As an alternative to the conventional diesel engine, the 818 is also available with a proven electro-hydraulic drive concept. Operating costs reduced by as much as 50%, low noise and the ability to work without stopping to refuel, as well as maximum environmental compatibility, are the key advantages offered by this system, says Sennebogen.

The highest level of precision and sensitivity are required for material handling in these applications. In this regard the boom can be considered figuratively as the extended arm of the machine's operator and the attached grapple figuratively as his hands. As a result, Sennebogen has been offering its own line of grapples for demanding material handling applications for all types of goods. Whether sorting grab, multi-shell and clam shell grab, extending to magnet grabs, in the extensive product range the right attachment for every use is available from the factory.

AT WORK

In Aschaffenburg, Germany, in an initial trial implementation at the end of 2013, the machine was put to the test in a practical application with considerable success. Bernhard Westarp KG specialises in the disposal and further processing of metal waste of all types. The family-run business handles approximately 1,000 tonnes of such material per day in the Ökopark development. Here the new 818 M was deployed to carry out sorting and loading activities across the entire site. In addition, the machine's compact dimensions allowed it to be used in the company's large sorting halls.

In this application, the 818 was primarily loading trucks with stamping scrap from the electrical industry, which will be transported for further processing. The compact design permitted use even in the narrowest sorting boxes. Sennebogen's proven Green Efficiency Technology promises efficient operation at the lowest consumption values. In test operation, a diesel consumption of less than 12 liters per hour was determined in a test implementation at Westarp. Single-digit consumption values are also possible depending on the work implementation. Moreover, the company was able to confirm a fuel consumption reduction of as much as 20% when the machine is operated in ECO Mode. ■

The new Sennebogen 818 E-Series was used in initial trial operation at Bernhard Westarp KG. The machine is particularly well-suited for loading trucks and for the various sorting tasks on the entire site



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A dirty job

New Zealand contractor Nikau was shortlisted for the 2013 Contract of the Year Award

On February 22nd 2011, Christchurch, New Zealand, was hit by the devastating 6.3 magnitude earthquake. Twenty-two seconds of violent shaking twisted and contorted buildings in a manner even the most acclaimed engineer would not have imagined possible. The central business district was rendered impotent.

The 14 storey Holiday Inn City Centre building, the second largest multi-storey hotel in New Zealand to have been demolished, was one such victim. The damage sustained was too great to warrant the cost of repair, thus the Holiday Inn City Centre building was condemned to deconstruction.

The programme of deconstruction began in October 2012 with an initial proposed project duration of eight months. The structure was demolished to basement level within four months from commencement of work, delays being caused through engineering authorisation and changes in demolition methodologies due to factors outside of the demolition contractor's control. The works were successfully completed ahead of schedule, with final site sign off conducted in June 2013.

The Holiday Inn was the second largest multi-storey hotel in New Zealand to have been demolished, with a total mass of 20,000 tons. Despite hotel staff removing limited furniture, fixtures, fittings, floor and wall coverings, curtains, chiller and refrigeration units were still present within the building.

Initial engineering assessments on the structure allowed for a traditional demolition method combining soft strip, cut and crane with eventual mechanical deconstruction from the 10th floor downwards. However, once works were underway, further assessment deemed that a new approach was required due to structural destabilisation. These changes posed great challenges to Nikau not only in the deconstruction phase, but also by posing the key question; "how best to manage 13 storeys of dirty demolition material?"

The Holiday Inn City Centre in Christchurch – soft strip had started before the scale of the earthquake damage was identified



SOFT STRIP INTO "DIRTY DEMOLITION"

Prior to structural demolition, a complete soft strip of the building was to be undertaken to allow the demolition of the building as a concrete skeleton, with propping installed in the stairwells to allow for safe access. In tandem, a 200 ton crawler crane was mobilised onsite to lift plant machinery, the copper roof structure and the planned

top three steel levels to ground. However, during the early soft strip stage it was revealed the earthquake damage was so severe on the top floors that CERA engineers condemned the building from further soft-strip or even strengthening works. Only two of the 14 floors had been soft stripped when CERA engineers issued a Section 38



letter to the client. Unfortunately, due to the rapid condemnation, the propping that was installed could not be retrieved, at a cost of NZD\$80,000 (US\$67,300).

Due to CERA's instructions to the client, Nikau had to come up with methodologies to ensure not just the safety of its personnel, but also the surrounding environment and other demolition works that were also taking place within 20 m (66 ft) of the building on the 13 storey Westpac Tower that was also in the process of deconstructing.

A major concern with the change in methodology requirement was the amount of dirty demolition material that could potentially cost millions of dollars if taken the landfill. Nikau had to come up with methods of both sourcing and co-mingling recycling processes to reduce costs to the client and optimise the recovery of valuable salvage materials.

During this period, site preparation works commenced, including the installation of street and footpath protection, and removal of Christchurch City Council assets to allow for the mechanical deconstruction using Nikau's 65 m high (213.6 ft) high reach excavator, nicknamed 'Twinkle Toes'.

ULTRA HIGH REACH DEMOLITION

The third phase of demolition was to mobilise Twinkle Toes, which was then demolishing a 12 storey concrete car-park structure a kilometre away. Due to the emergency demolition instructed by CERA, Nikau had been given consent to walk the machine through the streets of central Christchurch on swamp mats to the site.

Soon after its arrival and approval of the demolition methodology, it began work on the building. Due to the complex tube structural design the structure had to be demolished in intervals of up to four floors at a time around the perimeter to keep the structural integrity of the lower levels.

Nikau had convinced CERA engineers that there was the potential for a collapse of the internal floors beams and columns, but this would not be an issue as the internal structure would end up in the basement.

Again, with the presence of the substation within the basement, great care had to be taken to ensure that the material that did go into the basement was not large enough to pierce the protective slab above it.



Once the tower was down to a workable height, demolition excavators took over from the ultra high reach

Nikau removed a total of 20,000 tons of debris from the site to its recycling yard in Woolston, Christchurch, approximately 15 km from the site. Once there, excavators began to sort material, removing steel with magnets and sizing concrete to allow for separation of the soft materials from hard materials.

This took huge ingenuity as New Zealand was not set up for this type of material separation, nor was it available off the shelf from a local company, and the value of the material did not warrant a fully dedicated recycling system from Europe. Nikau had to come up with a way of utilising its own crushers, screens, washers and stackers to keep the cost low enough to validate not sending all of the material directly to the landfill.

Nikau developed the first mobile operation in New Zealand for sorting demolition waste without spending large sums on fixed plant and had utilised similar operations on previous demolition sites. A few trials were required but Nikau managed to place the right machines in the right sequence of processing line as follows. Excavators sorted larger material which was then crushed by a mobile jaw crusher with manual timber separation, with a mobile screen then sizing the result. A mobile washing separation system was used to separate floating materials from concrete - the first time this equipment was used for demolition. Manual sorting was used to separate the non-ferrous, insulation materials and other materials from the timber waste, with a mobile shredder used to further size down the timber materials to be used a boiler fuel at hospitals. Combustion testing was done to ensure the materials did not contain heavy treated timbers and other contaminants.

All other waste that could not warrant more processing was landfilled. A total of 50 tonnes of materials was disposed of to landfill through this operation.

BASEMENT REMEDIATION

Once the demolition materials had been removed, the owner then wanted to keep the basement, so careful demolition and wire-sawing of the concrete columns and a total clean-up of the site had to be done. There was no damage to the protective slab to the substation that was safely salvaged.

Personnel safety is of paramount importance. However, the continued seismic activity necessitated an unprecedented level of diligence and procedural training, including high standards of documentation and communication through to both site personnel, surrounding demolition companies, regulatory authorities and the client.

A dedicated health and safety representative was onsite at all times during the initial soft strip, through to cut and crane and the eventual mechanical deconstruction, providing monitoring and auditing for compliance as well as training, reporting and communication through to site personnel.

A shipping container stood permanently onsite for the express use as a safety bunker should there be a major seismic event during the deconstruction process. Furthermore, with the onset of the harsh sub Antarctic winter, working conditions were extra challenging, combating extreme temperatures and heavy snow.

Up until the condemning of the building with the Section 38 letter, (thereafter no further access into the building was permitted), demolition access to the building was maintained via the existing stairwells, which had been substantially propped. However, in the event of an emergency, there was a 200 ton crawler crane onsite utilising man cages that could lift personnel to safety.

During the cut and crane process, all onsite lifting activities were coordinated by a crane manager working to the relevant lifting plan, and dismantled sections of the building were lowered into a fenced off drop zone. All slinging and de-slinging was carried out by competent and certified riggers/dogmen.

Communication was continuously managed in a controlled manner using dedicated channel two-way radios.

Over 7,110.5 man hours were recorded onsite with no incidents or accidents recorded, including near misses.

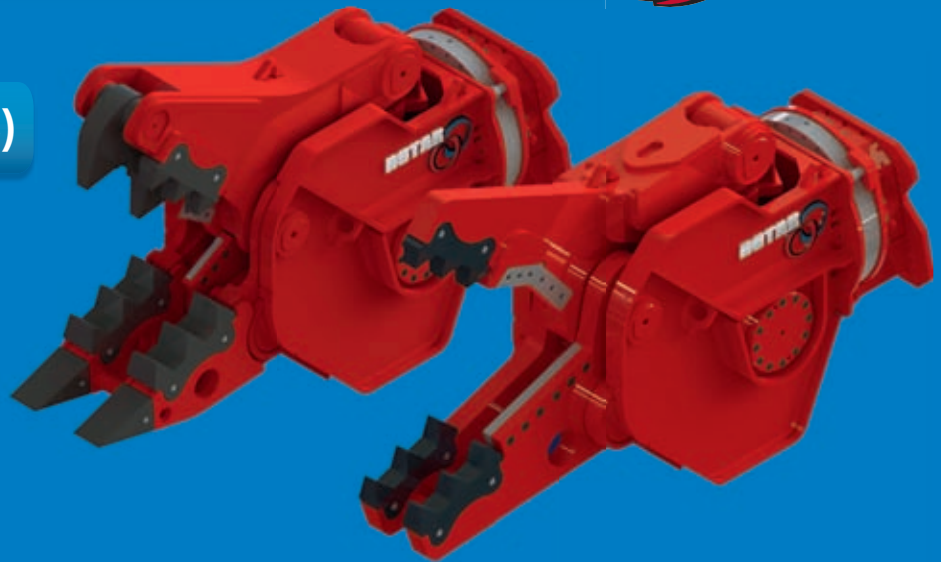


Although a 'dirty' demolition, much of the resulting 20,000 tonnes of debris was processed for recycling

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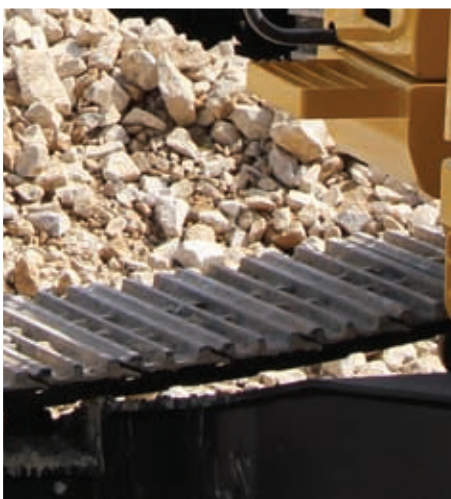
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Breaking into the Americas

Four new breakers have been added by Cat to its E Series line, intended for customers using mini excavators, skid steers and backhoes in North and South America. The new breakers are the H35E, H45E, H55E and H65E, and all four are available in either standard or silent configurations, with the latter breakers carrying an additional 's' designation after the model number, e.g. H35Es. In addition, the H45E and H55E are also available as pin-on and flat-top units. The flat top models can be used on Cat machines and those from other OEMs, while the pin-on models are used on dedicated hammer-equipped Cat carriers.

The H35E is intended for carriers weighing from 1.1 to 2.4 tonnes, the H45E is for 1.5 to 3 tonne carriers, the H55E is for 2.5 to 6 tonnes carriers and the H65E is for use on carriers weighing from 3 to 9 tonnes.

The silenced versions use a fully enclosed housing to suppress noise and the suspension system includes buffers at the top and bottom to adsorb reflective forces and isolate the breaker from the carrier and a suspension jack helps to dampen vibration and sound.

The new breakers feature 47% fewer parts than the equivalent D-Series model they



Four new breakers have joined Cat's E Series for compact equipment

replace to provide quicker and easier servicing. According to Cat, the new hammers have been designed and engineered to match the auxiliary flows and pressures of its own carriers. ■

Genesis further extends XT shear range



Genesis Attachments has announced two further additions to its XT range of mobile shears in the shape of the GXT 335 and the GXT 995, bringing the total number of models available in the range to 12. The two new shears are positioned at either end of the size range of the existing attachments.

The smaller of the two, the GXT 335, is available in two variants – non-rotating and rotating. The former weighs in at 2,954 kg (6,500 lb), has a jaw opening of 920 mm (23 inch), a jaw depth of 104 mm and can be carried boom mounted on carriers from 12 tonnes and when stick mounted from 27 tonnes. Its rotating counterpart weighs in at 3,318 kg (7,300 lb) and its jaw specs correspond to the above. It can be used boom

The GXT 335 and GXT 995 are the latest editions to Genesis Attachments' XT range of mobile shears

Dustcontrol UK has launched two new mobile dust extraction products, the Aircube 1200 (pictured) and the DC 3900 single and twin cyclone. The former sits between the company's current 500 and 2000 Aircube models and is designed for use in large rooms to clean air at a rate up to 1,100 m³/hour (39,000 ft³/hour). According to the company, the DC 3900 range has been developed with the environment in mind without compromising on extraction power and filtration.



mounted on carriers from 16.8 tonnes and when stick mounted from 36.4 tonnes.

Now the largest in the range, the GXR 995 is also available in non-rotating and rotating variants, with the former weighing in at 8,182 kg (18,000 lb), with a jaw opening of 990.6 mm (39 inch) and jaw depth of 1,067 mm (42 inch). It can be used boom mounted on 36 tonne carriers upwards and when stick mounted on 77 tonne machines upwards. The rotating version shares the same jaw dimensions, weighs 9,090 kg (20,000 lb) and can be used boom mounted on 45.5 tonne carriers and above and when stick mounted on 82 tonne machines and above.

According to Genesis, further XT shear models are under development that will eventually span the 9 to 114 tonne carrier range. ■

883 Spalek a hit in the UK

Terex Finlay's 883 Spalek tracked screen is proving to be a popular solution for UK recyclers, according to dealer Finlay Group. This may be due to recent issues resulting from the classification of trommel

finer for the UK's Landfill Tax that sees such fines as being classed as non-inert as a result of the potential for contamination from plastic, wood and other biodegradable waste. This results in a much higher rate of landfill tax

When Avant Tecno launched its 185 demolition robot in spring this year (see *DSRi* Mar-Apr 2013, p57 for more detail) one rationale for its introduction was that it could be used with the company's compact loaders to provide a 'one stop shop' for demolition contractors. This has now been illustrated by Finnish demolition contractor Paupek Oy, admittedly already an Avant customer, who in November took delivery of one Robot 185 and three loaders.

In addition, Avant says that a new breaker, the B230, will be released in February that has been tailored for use on the Robot 185. The B230 will have a power of 19.8 kW and a blow frequency of up to 2,600 per minute.



being levied for their disposal than for inert waste.

The high rate of separation offered by the 883 results in a very clean 0-10 mm (0-0.45 inch) fine that, especially when processing construction and demolition waste, may be largely composed of particles that are classed as inert, such as sub-soil and clay, and which therefore may not need to be sent to landfill at all.

The key to the 883's success is Spalek's 3-D combi Flip-Flow design bottom deck that uses rubber panels that move in a wave action, as well as expand and contract, to keep the waste in constant motion. This breaks down sticky material, such as clay and soil, making it possible to produce a fine with minimal contamination for non-inert material such as wood and plastic, which generally fall into the +10 mm (+0.45 inch) particle band.

According to Leon Shehhy, managing director of Finlay Plant South East (part of the Finlay Group): "The 883 Spalek is really proving its worth out on site. As well as providing waste processors with a possible solution for trommel fines, its sheer processing capacity and ability to tackle significant volumes of material makes it hard to beat."

Kobelco Construction Machinery Europe has introduced two new 21 tonne class tracked excavators in the shape of the SK210LC-9 and SK210NLC-9. Built in Japan, the two machines are Stage IIIB/Tier 4 Interim compliant with regard to emissions through the use of the Hino J06E-T53 turbocharged diesel. They offer three work modes - Heavy, Standard and ECO - and feature automatic idle stop to help reduce fuel consumption.

According to the company, the new machines offer a 4.7% reduction in fuel consumption in Heavy mode against the models they replace, with corresponding reductions of 5% in Standard and 17.3% in Eco. Maximum power and torque output provides smooth progressive travel on all types of terrain and optimised lift, swing and dig action of the arm. According to the company, a state-of-the-art hydraulic control system complements the precise and seamless arm operation with less engine performance input required to also help reduce fuel consumption.

The FSL100 - Anaconda's new scalping screen

Anaconda has celebrated the start of 2014 with the introduction of a new scalping screen, the FSL100, which it says has been designed for some of the toughest applications in quarries, mines and recycling facilities. It is intended to meet the demand from customers who do not require conventional three way separation of product.

The machine is powered by a JCB444 Dieselmex engine or a Deutz TD2011FL04i engine. The two-deck vibrating grid can be fitted with grizzly bars, fingers, punch plate or mesh, with the hopper protected by a heavy duty plate to prevent damage when oversize is cleared. Both the feeder and discharge belts offer variable speed control with the machine controlled by wired or radio remote control.

Anaconda managing director Alistair Forsyth said of the FSL100: "Designing new products in tandem with our dealer network has been a key factor in our success to date. The FSL100 has once again evolved from these discussions and we hope we have been able to address a gap in the market for this type of machine. Although the machine is different from what has gone before, our customers will find the same core ingredients in this model - quality, robust design, easy to use and affordable."



Anaconda's new FSL100 can produce two end products and is claimed to be ideal as a pre or post crushing screener



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Rivners' new giant starts work

Rivners AB has taken delivery of a new Trevi Benne MK 70, supplied via Swedish dealer Andersen Contractor, based in Örsundbro, just outside Uppsala. Said to be the largest multiprocessor currently available, the new attachment was delivered with pulveriser and concrete shear jaw sets. The MK 70 weighs in at 9,000 kg (19,800 lb) and requires a carrier from 75 to 100 tonnes. When fitted with its scrap shear or concrete shear, the MK 70 provides a cutting force of 1,100 tonnes, while the pulveriser jaw delivers 490 tonnes of force. A jaw changeover time of five minutes is claimed for the MK 70 and it is available with three other sets in addition to the two taken by Rivners. These consist of the concrete shear set mentioned above, a crusher jaw and a special pulveriser set that features dual steel

cutting blades that cuts the rebar within the concrete being crushed.

Rivners immediately put its new tool to work on a contract in the middle of the Swedish capital city of Stockholm. This is the demolition of the former headquarters building of AB Atomenergi in the Liljeholmen district of the city. This former industrial district of the city is increasingly being redeveloped for residential use. Originally built in 1964 as the headquarters of the state AB Atomenergi (Atomic Energy), Nutek House has served as the home for Nutek-Tillväxtverket (Swedish Agency for Economic and Regional Growth) since AB Atomenergy ceased operation. Its demolition is being carried out to make way for a number of residential buildings that will house 225 apartments ■



Rivners' new MK 70 from Trevi Benne at work on the old HQ building of AB Atomenergi, Nutek House



Northshore Manufacturing has introduced two new Builtrite trash/sorting grapples that can be used with its own equipment, stationary waste handlers or excavators to provide a handling solution across a wide range of applications including construction and demolition waste handling and actual demolition work. The new attachments are the 955 kg (2,101 lb) THS 20T and the 1,295 kg (2,849 lb) THS 24T. They feature full 360° continuous rotation on heavy duty bearings, large surface area when closed for optimum tamping performance, oversized hardened cylinder and arm pivot pins, replaceable wear edges and easily accessible well protected greasing points. Both new attachments can be supplied as either hanging or wristing head configurations.

Doosan's DX300LC-3 demolition specification machine meets the latest stage of the engine emissions regulations

Scottish renter adds Doosan to fleet

Specialist demolition equipment rental operation JCH Plant Hire, based in Coatbridge near Glasgow, has taken delivery of a new Doosan DX300LC-3 Stage IIIB compliant tracked excavator that was supplied through Doosan's Scottish dealer, Scotia Plant. It immediately started work on the demolition of Auchmuty High School in Glenrothes, which is being demolished by Falkirk based Masterton Demolition.

The school opened in 1957 and was the first state secondary school in the town. The school's facilities were expanded in the early 1970s,

but time has taken its toll and a new building has been built to replace it on the old school's sports fields as part of a general regeneration of Scotland's school buildings. The demolition of the old building will free up land for new playing fields for the school building.

JCH Plant's fleet now includes four demolition specification Doosan excavators, which are joined by a Doosan DL300 wheeled loader, for use on demolition projects throughout Scotland. ■



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An MB Dig A Crusher BF90.1 crushing bucket, teamed with a Hitachi ZX210, is supplying 30 tonnes of material per hour for use for paths and roads in remote parts of Scotland

Walk in the park

In an unusual application, an MB BF90.1 crushing bucket, supplied by UK dealer Worsley Plant, is being used by McGowan Outdoor Access to provide aggregate from local rock sources. Since 2009, McGowan has been providing low impact, environmentally sensitive methods of construction to create roads, paths and bridges across rural Scotland, with clients including private estates, National Parks such as Loch Lomond, and government bodies such as the Forestry Commission.

Using the crushing bucket, McGowan is able to crush the rock down to 60 mm (2.4 inch) and then transport it to where it is needed using site dumpers. With many of the locations where the company works being located high up in the Scottish mountains, access issues mean that the user of larger crushing plant is not feasible.

Managing director Ross McGowan commented on the new attachment: "Using the crushing bucket has saved us considerable time, as well as transportation and material costs. The nature of our work and the difficult access to many jobs means that recycling materials not only makes the job more cost effective, but also helps us to achieve our aim to provide environmentally friendly methods of building roads, pathways and bridges in rural areas thus protecting the natural environment and reducing our carbon footprint."



One of the first Kleemann MC 110 Z EVO tracked jaw crushers is providing a recycling solution for German contractor Grathwohl Erdbau und Abbruch GmbH at its Grunstadt base in the Palatinate region of Germany. Introduced at bauma earlier this year, the machine supplied to Grathwohl is the Z version with an active double-deck prescreen. According to managing director Nadine Grathwohl: "We mainly process mixed rubble and concrete, some of which is strongly reinforced. In such applications the plant simply has to complete its task reliably. Some of our applications often contain substantial amounts

From arts to crafts

Gebrüder Kirchner GmbH based in Elxleben, Germany, has demolished a cultural and recreational complex in Erfurt that will be replaced by a new shopping centre. The 3 storey building on Moskauer Platz, built in 1984, housed a restaurant, two halls, a library, a bowling alley and other rooms and offered the 7,000 residents in the immediate vicinity a wide range of activities. However, it closed its doors in 1997 and since then has lain vacant.

In an eight week project, Kirchner used an all-Doosan fleet of machines that operated from eight to 12 hours a day. This consisted of two Doosan DX300LC excavators (one a new Stage IIIB compliant DX300LC-3), a DX255LC-3 crawler excavator, a DX190W wheeled excavator and a DL420-3 wheel loader for demolition and loading work, and also for



The Erfurt cultural and recreational centre is making way for a new shopping centre

feeding the mobile crusher on the site. The material produced by the latter was used as fill on the site for the new construction. ■

Glasgow blowdown clears the way

Safedem recorded another explosive demolition in the Scottish city of Glasgow when it brought down a 25-storey block of flats in Roystonhill in the north of the city. The demolition forms part of Glasgow Housing Authority's ongoing regeneration programme with the site, once cleared, being used for the construction of 100 new GHA homes. GHA has invested more than £1.3 billion since 2003 in modernising, improving and building homes across the city.

These new homes are just part of wider plans to regenerate the north of Glasgow, with a further 141 being built in Sighthill and 157 in Barmulloch. Alex McGuire, Director of Property for Wheatley Group, GHA's parent company, said: "This is one part of a new beginning for the North of Glasgow. These flats were home to hundreds of families since 1968 – but their time had come to an end. These exciting regeneration plans will see the area transformed with hundreds of new

homes being built. We'd like to thank all of the tenants and local businesses for their cooperation in another successful demolition."

The block was charged with 40 kg (88 lb) of explosive by specialist contractor Safedem to bring the structure down in just five seconds. Safedem managing director William Sinclair said of the blowdown: "It requires a real team effort and everyone has pulled together to make this another safe and successful demolition. We'd particularly like to thank nearby residents for their patience and understanding while the demolition was carried out."

The site will be cleared of the 10,000 tonnes of demolition debris by the middle of 2014, with steel and other metals removed for recycling and other debris crushed and used on-site for various fill applications. ■





South African contractor Draco Demolition CC has invested in a Brokk 100 with a CC 320 crusher and SB 152 breaker

Brokk 100 goes to the shops

Draco Demolition's newly acquired Brokk 100 demolition robot is currently working at the Mall of Rosebank in Johannesburg, South Africa, where it is helping to prepare the way for an up-date and extension to the existing mall that will connect it to the Gautrain rail link in the city. The aim of the work is to create a premier retail and commercial hub for shoppers, train passengers, pedestrians and residents in the area.

The Brokk's ability to operate on floors with load restrictions and the ease of movement from one work location to another within the building have proven attractive to the contractor, as has the machine's ability to be used in close proximity to a live environment. The requirement of the contract is such that retail units around where the machine is working have to remain open to customers while work is ongoing. This means that Draco has had to be able to work in line with very strict requirements regarding dust generation and regulated hours of work. The machine is expected to have processed 150-200 m² (1,615-2,153 ft²) of concrete by the time work is completed in mid 2014.



The redundant intake tower at the Mardi Dam in Australia falls to concrete cutting techniques

The deepest cut

A redundant water intake tower is currently being reduced in height by half at the Mardi Dam in New South Wales using concrete cutting techniques that is being carried out from barges moored alongside the 20 m (66 ft) structure. A new intake tower was constructed in 2010 to transfer water from the Dam to the Mardi Treatment Plant in a Aus\$57 million (US\$50.1 million) upgrade as part of a long term strategy developed by Gosford City and Wyong Shire Councils to secure the water supply and protect the environment known as WaterPlan 2050.

In a statement, manager of headworks Garry Casement said of the demolition: "We wanted to find the best and most economical way to carry out the demolition works without compromising water quality. We consulted a number of engineering and demolition companies and came up with a plan to remove the tower in a safe and cost effective way."

"Over the past few weeks a number of

barges have been assembled to form working platforms. The demolition equipment, including concrete saws and a diamond wire saw, sit on these barge platforms to complete the work. We will progressively cut away the top 10 m of the 20 m tower and use the rubble to fill in and stabilise the remaining part of the tower," he said.

As the work progresses, the water level in the dam will be dropped to 40% through normal usage or transfers through the Mardi-Mangrove Link.

"Careful attention has been placed on choosing demolition and waste management methods that will not affect the dam's water quality. Council staff will conduct regular inspections of the site and take extra water quality samples during demolition to ensure water quality remains high," said Garry. The work is expected to be completed by the end of January 2014 and represents an investment of Aus\$270,000 (US\$241,000) into the water supply system. ■

School work good value for Freeley

School work has provided a good return for J Freeley over the last two years, during which time it has demolished six such buildings that generated earnings of £1 million (US\$1.7 million) for the company. Its latest project was the demolition of the former Stamford Community High School in Ashton under Lyme in Greater Manchester, UK, for client Inspiredspaces Tameside. This is a company that was set up to deliver the UK government's Building Schools for the Future programme in the borough.

Once the contract was awarded the actual demolition had to be delayed for a year for two reasons. First, an issue concerning protected species raised its head – the presence of a bat colony in one of the school buildings. To deal with this issue, bat boxes were installed in trees around the site prior to demolition and high intensity lighting was installed and focussed on the buildings to deter the bats from roosting inside. Second, the old school had been booked for the filming of episodes of the UK television series Shameless. Once

work finally commenced, the demolition was completed in 18 weeks, two ahead of schedule.

Four buildings were brought down, largely by mechanical means, by the 12 man crew using excavators fitted with grabs, pulverisers and a shear that was used to process the steel-framed structures. An electricity substation had to be retained live on the site during the work, which required the team to protect the cables running from it. Noise was also an issue, with monitoring being required to ensure that limits were not exceeded.

A total of 15,000 tonnes of concrete and masonry was generated by the demolition,



UK contractor J Freeley has completed its sixth school demolition in two years, the latest being the Stamford Community High School

The 25-storey Roystonhill blowdown resulted in 10,000 tonnes of debris



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- Dig and Compact
- Hydraulic Clamp
- Strong Trenching with Vibration

Bucket Shredder

**TWO-WAY ROTATION
SAFETY COVER
JAW CHOSEABLE**

- For reducing the volume of waste
- Thumb cover can squeeze the materials
- Crushing Jaw choseable from 50 to 150
- Drain line is necessary

Green Alligator

**360 ROTATION
SAFETY CLAMP**

- Safety work with clamp
- Speed valve is optional
- Drain line is necessary

Steel Plate Magnet

**360 ROTATION
SAFETY CLAMP
HIGH SUCTION POWER**

- 360 degree rotation
- Safety clamp to grasp the steel plate
- 24V high power magnet

Leeds return for IDE

The Institute of Demolition Engineers once again returns to its popular Leeds Armouries venue for its Spring Seminar on Friday 28th February, 2014. Details of the programme are yet to be announced but given the success of the event over recent years, it is sure to be a major draw for the UK demolition industry.



D&Ri usually attends the Seminar, but unfortunately this year the date clashes with the NDA's annual convention and the ConExpo trade show, both of which are being held in Las Vegas. As a result, we have to absent ourselves from the IDE event this year, but hope to report on it through the efforts of third parties in a future issue.

■ For more information, visit <http://www.demolitionengineers.net/events/spring-seminar-2014/>.



National Federation of Demolition Contractors
The voice of the UK Demolition Industry

NFDC AGM date released

The UK's National Federation of Demolition Contractors will once again hold its 2014 Annual General Meeting at the Dorchester Hotel on Park Lane, London, on Friday 21 March, 2014.

The formal business meeting will be followed by an awards ceremony that will be hosted by guest speaker Martin Bayfield, who is a former England international rugby union player. A total of seven awards categories are open to nominations from members. They consist of: Demolition Operative of the Year; Demolition Plant Operative of the Year; Demolition Manager of the Year; Demolition Achievement Award; Demolition Training Award; Demolition Innovation Award – Corporate and Demolition Innovation Award – ISP.

The individual winners of the Operative, Plant Operative and Manager will each win £1,000 (US\$1,657).

■ For more information and nomination forms, see: <http://demolition-nfdc.com/event/demolitionawards201420140321.html>



Berlin conference programme unveiled

The Deutscher Abbruchverband has released the programme for its 2014 Berlin Demolition conference that will take place on 28 and 29 March at the Intercontinental Berlin hotel on Budapaster Strasse. Once again, the DA has arranged for simultaneous translation into French and English to be available for the event. D&Ri has been attending this event every year, and considers it to be one of the best information forums for the industry, as well as being among the best attended events for the industry worldwide – it is well worth taking the time to be there.

As is normally the case with this event, the conference features a packed technical programme, with a total of 19 technical papers

scheduled to be presented over the course of the full day on March 28. A wide range of topics will be covered, from practical examples of modern demolition projects, such as the Ticona plant decommissioning, the Sinntal road bridge blowdown and the Sparkasse HQ renovation project, through to the latest in recycling technology and demolition regulations.

On the Saturday, the DA will offer trips to view ongoing demolition projects in the region around Berlin, with the day kicking off with a forum discussion. But of course, the previous evening will see the traditional outing to the 'Old Pumphouse' for an evening of Frei Bier and traditional Berlin fare, always an effective lubricant for discussion. ■

NDA updates Safety Manual



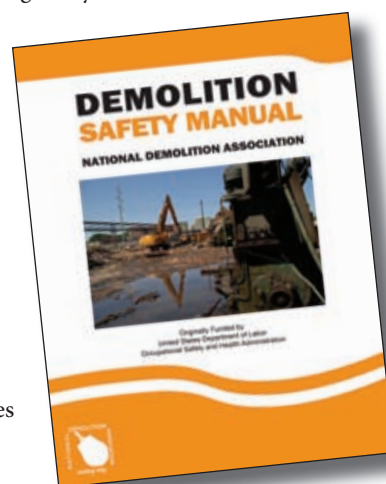
The National Demolition Association has released an updated version of its *Demolition Safety Manual* that incorporates new information on a range of subjects, studied and recommended by the Association's Safety Committee and other leading safety figures in the industry.

According to executive director Mike Taylor: "Our *Demolition Safety Manual* is used by professionals around the world and is the cornerstone of the NDA's extensive demolition safety program. We work closely with OSHA, which helps fund the manual's development, to correlate the recommended practices it contains with OSHA Construction Standard

29 CFR 1926 and numerous accepted environmental regulations."

Included in the new manual is updated information on the handling of the various hazardous materials to be found on

demolition sites, as well as use of the latest generation of quick couplers and the safe operation of high reach demolition excavators. According to the NDA, the latest edition is more easily searchable for desktop computers and mobile devices – a searchable version will soon be available from the NDA's website, www.demolitionassociation.com. It is available free to Association members and for US\$100 (E73) for non-members. ■





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- Other

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